

## TECHNICAL DATA SHEET

### AMPAC – High Speed Grease

#### *High Speed Grease*

**AMPAC – High Speed Grease** is a new concept in the make up of a lubricant.

The light viscosity mineral oil in **AMPAC – High Speed Grease** makes this lubricant ideal for many high speed applications where fluid friction must be kept to a minimum. The make up of this product is such that it is compatible with a wide range of plastics.

**AMPAC - High Speed Grease** is a lithium combination type thickener, NLGI No.1 grade lubricant with an ASTM dropping point in excess of 430 °F and a workable cold test of – 40 °F.

**AMPAC – High Speed Grease** is being used very successfully in a wide variety of applications including :

- High speed ball and roller bearing applications such as found In grinders, wood working machinery, exhaust fans, blowers and High speed mixers
- Fractional horse power gear cases
- Gear cases of mechanical bunny ( Dog Tracks )
- Hi – cycle rotor grinders and tools
- Portable electric tool gear cases

#### **ADVANTAGES:**

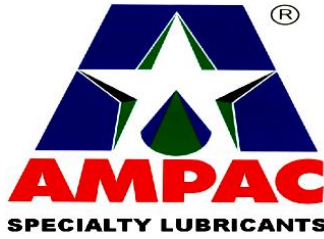
- Excellent oil – bleed resistance especially for allow viscosity oil
- Exceptional anti – wear properties improve lubricity characteristics
- High aniline point ( mineral oil )
- Highly oxidation resistant
- Very shear stable
- Water proof



### TYPICAL PROPERTIES

<b>AMPAC–High Speed Grease</b>	
Prod Code	AMG 4851
Color	Green
Type of Thickener	Lithium Combination
N.L.G.I. Consistency No.	1
Worked Penetration @ 77 °F	310 -340
60 strokes	330
10,000 strokes	332
100,000 strokes	345
ASTM Dropping Point	430+°F/221+°C
Mineral Oil Viscosity	
SUS @ 100 °F	200
cSt @ 40 °F	39
Pour Point	-40°F
4-Ball OK Load (kg)	200

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# **TECHNICAL DATA SHEET**

## **AMPAC W & T**

### *Water Resistant & High Temperature Grease*

#### **Product Description:**

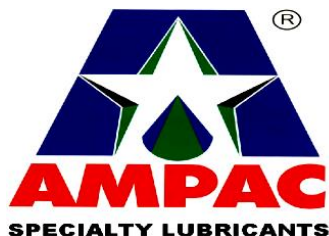
**AMPAC W&T** is a Calcium Sulphonate Complex thickened grease based on mineral oil with a high drop point and high resistance to fresh and salt water as well as vapor resistance. The grease is a well provided with superior lubricating and sealing capacity and offers increased load carrying capacity. Properties in terms of water and thermal resistance, load capacity, anti corrosion properties while keeping a very high level of pumpability and ability to lubricate well in case of high loads.

#### **Applications:**

**AMPAC W&T** is suitable for the lubrication of all kinds of components subject to high loads and temperatures, shock, working in conditions where the grease is in frequent contact with water (even sea water due to enhanced anti rust performances).

#### **Features/Benefits:**

Wide operating temperatures (intermediate, peak), high dropping point, high anti corrosive capacity, superior resistance to cold and hot water, shock loaded applications in industry even in severe demanding environment (water dust, high temperature), high fluidity and pump ability, very adhesive, high stability to mechanical work



**TYPICAL PROPERTIES**

<b>AMPAC W&amp;T Water Resistant &amp; High Temperature Grease</b>		
ProdCode	AMG 4385	<b>Test Method</b>
Color	Brown	Visual
Appearance	Smooth	Visual
Soap/Thickener	Calcium Sulfonate	
NLGI grade	2	ASTM D217
Operating temperature range (°C)	-25 to 180	
Kinematic viscosity of the base oil at 40°C, mm <sup>2</sup> /s (cst)	320	ASTM D445
Penetration at 25°C, 0.1 mm	265-295	ASTM D217/ DIN 51 818
Dropping point (°C)	>300	
		IP 396
Oxidation stability at 99°C ±0.5°C		
• Pressure drop after 100 hours, psi	5	ASTM D942
• Pressure drop after 500 hours, psi	16	
EMCOR, distilled water (Rating)	0-0	ISO 11007
EMCOR, synthetic sea water (Rating)	0-0	ISO 11007
Copper corrosion, 24 hours at 100°C (Rating)	1 b	ASTM D4048
Four ball wear (scar diameter) mm	0.43	ASTM D2266
Four ball weld kgf	500	ASTM D2596

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# TECHNICAL DATA SHEET

## AMPAC WRPS GREASE

*Wire Rope/ Open Gear Grease*

### **Product Description:**

**AMPAC WRPS GREASE** is a special grease formulated for wire rope application, this grease has penetration to the deepest point of excellent. Grease that has high water resistance so good if in use in the area of many water or in the sea.

### **Applications:**

- Wire Rope
- Open Gear

### **Features/Benefits:**

- Water Resistant
- A Combination of superior corrosion resistant
- Anti-wear
- Rust-preventive grease

### **TYPICAL PROPERTIES**

AMPAC WRP GREASE	Wire Rope/ Open Gear Grease
ProdCode	AMG 5190
Color	Black
Thickener	Calcium
Base Oil	Mineral Oil
NLGI Consistency	1
Worked Penetration @77°F	310-340
Viscosity @210°F	70-80 cSt
Water Washout @100F,(ASTM D1264)	3.50%



# TECHNICAL DATA SHEET

## AMPAC Wire Rope & Chain Lubricants

### TYPICAL PROPERTIES

AMPAC Wire Rope & Chain Lubricants	
Prod Code	AMG 5501
Color	Black
Appearance	Smooth
Type of Soap	Calcium
NLGI	1
Worked Penetration @ 77°F	310 to 340
Melting Point	220 °F
Odor	Pine
Mineral Oil Viscosity @ 210 °F Flash Point, °F Fire Point, °F	70 – 80 390 425
Water Washout @100 °F (ASTM D1264) Using Synthetic Sea Water (in place of distilled water) Bearing Dried @ 77 °C	3.52%
Penetrating Qualities	Very Good (Fortified with additives for this particular requirement)



## TECHNICAL DATA SHEET

### AMPAC - SYN OGL 77

#### *Synthetic Open Gear Lubricants*

**AMPAC - SYN OGL 77** thickened heavy duty gear & wire rope lubricant containing extreme pressure and anti-wear additives. This grease provides extended long service life in heavy-duty operations. This is formulated in highly refined high viscosity Heavy Duty Synthetic oil making it suitable for lubrication of mining, mineral processing, cement industries, sugar plant, also can used Viscose, Rayon Manufacturer and Amonium Nitrat Plant. It is based on unique Lithium-12 Hydroxy Stearate, Moly thickener which makes it superior grease for water ingress applications.

#### **APPLICATIONS:**

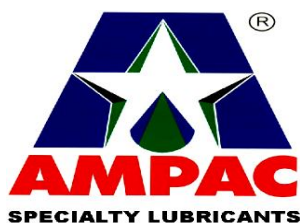
- Also suitable for heavy duty open gears operating under slow speeds
- Exhibits exceptionally high film strength, helpful for withstanding high-load, heavy shock applications
- Creates a film on metal surfaces, preventing destructive metal to metal contact
- Contains no lead or heavy metals
- Can be disposed of like any other nonhazardous Synthetic Oil.

#### **KEY FEATURES:**

- Water resistant.
- Highly tacky and adhesive.
- Contains high Synthetic Oil viscosity.
- Contains extreme pressure and anti-wear additives.

#### **CUSTOMER BENEFITS:**

- Better adherence on gear & wire rope surface.
- Superior gear & wire rope protection against water contact.
- Excellent lubrication under heavy loaded gears & wire rope.
- Excellent protection against wear and Long service life.

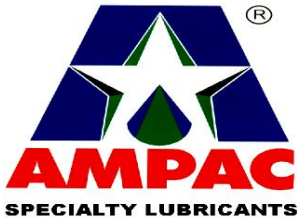


**TYPICAL PROPERTIES**

<b>AMPAC SYN OGL 77 Synthetic Open Gear Lubricants</b>		
Prod Code	AMG 5302	
Color	Black	Visual
Texture	Thick Clingy	Visual
Thickener	Lithium-12 Hydroxy Stearate, Moly	-
NLGI	2	
Viscosity Index @ 40°C @ 100°C	30.000 cSt 650 cSt	ASTM D455
Water content, %	Nil	Distillation
Brookfield Viscosity @ 200 F #3 spindle, 4 rpm, cPs	8,700	ASTM D2983
Four Ball Weld Load, Kg	315	
Consistency	Heavy	ASTM D2596
Timken, OK Load, lbs	80	

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# TECHNICAL DATA SHEET

## AMPAC HIGH TEMP

### *High Temp Grease*

**AMPAC HIGH TEMP** is a new development for extreme high temperature applications. This lubricant is of the non-melt type and manufactured with high viscosity oils of exceptional stability. Multipurpose grease fortified with engineered additives to provide better EP and high temperature. The Non-Melting, inorganic Gelling Agent thickener gives this grease excellent high temperature performance, and a wide operating range temperature range than most soap based greases, high quality, fully refined base stocks provide natural oxidation stability. Specialized additives provide a chemical barrier protecting lubricated parts against rust and corrosion.

**AMPAC HIGH TEMP** has an operating temperature range  $>550^{\circ}\text{F}$  /  $>288^{\circ}\text{C}$  allowing it to perform in even extreme duty applications.

**AMPAC HIGH TEMP** is recommended for medium to slow bearing speeds at normal temperatures and medium bearing speeds at warm to hot temperatures in applications such as kiln car, wheel bearings, roller bearings, oven door hinges, pellet mill bearings, - slag-bed shaker bearings, hot conveyor bearings and steam control valves as well as many other industrial, construction, automotive, and off-highway applications.

KEY FEATURES	CUSTOMER BENEFITS
Excellent water resistance.	It effectively provide protection from water washout under all-weather lubrication.
Very chemical resistant.	
Excellent thermal and rust, corrosion protection.	Provides effective wear protection under for bearing, ball joints, drive shafts and other parts subjected to high pressure and shock loading.
Non-Melt high temperature grease.	The specialized additives present in grease protect equipment from chemical oxidation, rust and corrosion resistance and thus providing long service life.
Withstand heavy loads and protects from Wear.	
	Do not melt and resists chemical degradation at high temperatures and thus protects equipment under severe high temperature operating conditions.

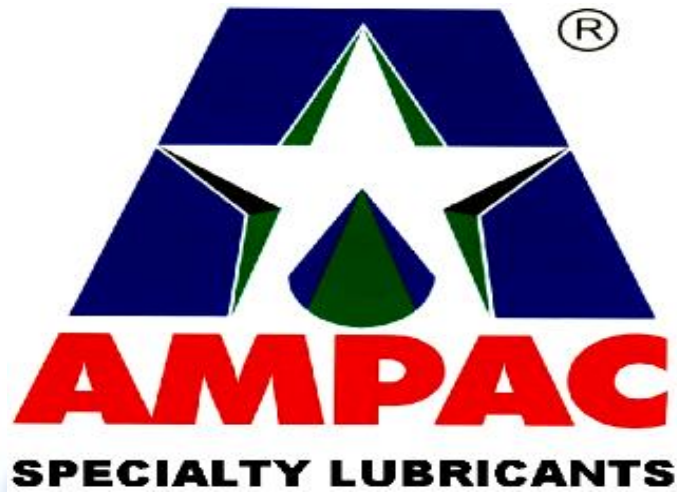


**TYPICAL PROPERTIES**

<b>AMPAC HIGH TEMP High Temp Grease</b>		
Prod Code	AMG 5333	Test Method
Color	Beige	Visual
Thickener	Inorganic Gelling Agent	
NLGI	2	
Worked Penetration @77 °F	25 – 295	ASTM D217
ASTM Dropping Point	Non-Melt Type (>500 °F)	ASTM D566
Mineral Oil Viscosity :		ASTM D455
cSt@ 40°C	497	
cSt@ 100°C	32	
SUS@100 °F	2600	
SUS@210 °F	155	
Flash Point	580 °F / 304 °C	

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***SEALANTS & GREASE &  
CLEANER***

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## **TECHNICAL DATA SHEET**

### **AMPAC - GVS 600**

#### *Plug & Gate Valve Sealant/Lubricant*

#### **Product Description :**

**AMPAC - GVS 600** is superior Valve Sealant allows valves to seal thereby extending their life time and performance which greatly enhances the sealing ability of passing valves. It has withstood testing in condensate, high pressure and up to 42% CO<sub>2</sub>.

#### **Applications:**

**AMPAC - GVS 600** is water proof and will not harden and it is resistant to solvents and chemicals including sour gas, sour crude oil diesel, carbon dioxide, hydrocarbon acid, brine, water and condensates, as well as drilling muds.

**RESISTANT TO H<sub>2</sub>S**

**SUPERIOR SEALING ABILITY**

**RESIST WASH OUT**

**LUBRICATES VALVE INTERNALS**

**RESIST WASH OUT**

**NON MELTING AND NON-HARDENING**

**COMPATIBLE WITH OTHER LUBRICANTS**

**REDUCES FRICTION DURING OPERATION OF VALVES**

**RUST, CORROSION AND OXIDATION PREVENTIVE**



## TECHNICAL DATA SHEET

### AMPAC - GVS 600 *Plug & Gate Valve Sealant/Lubricants*

AMPAC – GVS 600 <i>Plug &amp; Gate Valve Sealant/Lubricants</i>	
Prod Code	AMGVS600
Appearance	Dark Green, Smooth, Tacky
NLGI	0
Dropping Point	>500°F (260°C) (ASTM D566)
Base Oil	Synthetic Ester
Base Oil Viscosity	30,000 cSt at 40oC
Thickener	Inorganic
Flash Point	>550°F
Penetration	355 – 385 (ASTM D-217)
Worked Penetration, 60x	355 - 385 (ASTM D217)
Dropping Point	>500°F (260°C) (ASTM D566)
Specific Gravity	1.3
Density (lb/gal)	11.1
Temperature Range	0°F to 400°F (-18°C to 204°C)



## **TECHNICAL DATA SHEET**

### **AMPAC - 601**

#### *Valve Lubricants*

**Product Description :**

**AMPAC - 601** is a synthetic lubricant that especially resistant to hydrocarbons water and hydrochloric acid and superior metal adhesion under the most demanding conditions, temperatures and pressures.

**Application :**

**AMPAC - 601** is waterproof and will not harden, adheres to metal assuring protection against rust and corrosion. It is suited for Frac application, high pressures gas, condensate H<sup>2</sup>S, H<sup>2</sup>O, CO<sub>2</sub>, aliphatic hydrocarbons, butane, diesel fuel, hot asphalt. Hot gases, hot oil, LPG, saltwater, and sand slurries.

**RESIST WASH OUT**

**LUBRICATES VALVE INTERNALS**

**COMPATIBLE WITH OTHER LUBRICANTS**

**REDUCES FRICTION DURING OPERATION VALVES**

**RUST, CORROSION AND OXIDATION PREVENTIVE**

**INSOLUBLE IN WATER**

**HIGH METAL ADHESION**

**RUST, CORROSION AND**



# TECHNICAL DATA SHEET

## AMPAC - 601

### Valve Lubricants

AMPAC - 601 Valve Lubricants	
Prod Code	AMG 601
Appearance	Silver-black, smooth, tacky
Thickener	Inorganic
NLGI	1.5 - 2
Base Oil	Synthetic Ester Blend
Base Oil Viscosity	10,000 cSt at 40°C
Base Oil Pour Point	-15°F (-9°C)
Temperature Range	0°F to 600°F (-18°C to 316°C)
Penetration	280 - 310 (ASTM D217)
Work Penetration,60x	280 - 310 (ASTM D217)
Additives	Antioxidant package
Solids Content	Moly disulphide, natural minerals
Dropping Point	>500°F (260°C) (ASTM D566)
Flash Point	>450°F (232°C)



# TECHNICAL DATA SHEET

## AMPAC – 602

### *Penetrant / Cleaner Valve Flush*

#### **Product Description:**

**AMPAC - 602** allows valves to be freed up, thereby extending their lifetime and performance. It is a superior valve flush/penetrant/cleaner. It is a multi-ingredient, semi-fluid combination of penetrants, cleaners and lubricants engineered for difficult or impossible to operate valves.

#### **Applications:**

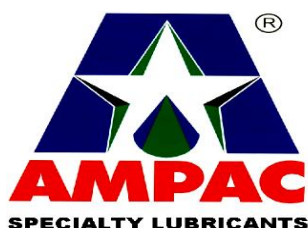
AMPAC - 602 is for use on hard to operate, passing or seized valves. It will penetrate and clean valve seats and ball.

REMOVES SURFACE RUST; LACQUER; GUM  
PENETRANT AND CLEANS VALVE INTERNAL  
NON FLAMMABLE

FREE PASSIN OR TIGHT VALVES  
COMPATIBLE WITH LUBRICANTS

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# TECHNICAL DATA SHEET

## AMPAC - 602

AMPAC - 602 Penetrant / Cleaner Valve Flush	
Prod Code	AMPAC 602
Appearance	Black , Smooth
NLGI	1
Temperature Range	-40°F to 400°F (-90°C to 240°C)
Flash Point	196°F (91°C)
Penetration	300-330 (ASTM D217)
Thickener	Inorganic
Specific Gravity	1.1
Density ( lb/gal )	8.8



# **TECHNICAL DATA SHEET**

## **AMPAC - HT 1000**

### *High Temperature Valve Lubricant*

#### **Product Description:**

**AMPAC – HT 100** reduces friction during operation of valves allowing valves to turn easily, thereby extending their lifetime and performance. It is a valve lubricant for High Temperature wells.

#### **Applications:**

**AMPAC – HT 1000** is waterproof and will not harden, adheres to metal assuring protection against rust and corrosion. It is resistant to hot oil, diesel, hydrochloric acid, brine, water and drilling muds.

**INSOLUBLE IN WATER**

**HIGH METAL ADHESION**

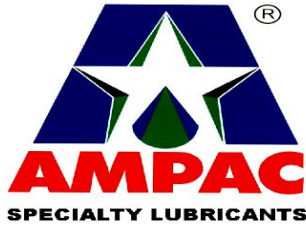
**COMPATIBLE WITH OTHER LUBRICANTS**

**RESISTS ACIDS, HOT OIL, WATER,**

**RESIST WASH OUT**

**LUBRICATES VALVE INTERNAL**

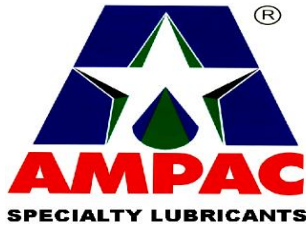
**LUBRICANTS FOR HIGH TEMPERATURE WEEEL**



# TECHNICAL DATA SHEET

## AMPAC - HT 1000

AMPAC- HT 1000	
Prod Code	AMPAC HT 1000
Appearance	Black, smooth, tacky
NLGI	3
Penetration (ASTM D217)	225-255 (ASTM D217)
Flash Point	>550°F (288°C)
Thickener	Inorganic
Worked Penetration, 60x (ASTM D217)	225-255 (ASTM D217)
Base Oil	Synthetic and natural ester
Base Oil Viscosity	500 cSt at 40°C
Dropping Point (ASTM D566)	>500°F (260°C) (ASTM D566)
Base Oil Pour Point	-4°F (-16 °C)
Temperature Range	-20°F to 900°F (-29°C to 482°C)
Additives	Antioxidant package
Specific Gravity	1.0
Density (lb/gal)	8.6



## **TECHNICAL DATA SHEET**

### **AMPAC – HS 300**

#### *Valve Lubricant*

#### **Product Description:**

AMPAC – HS 300 allows valves to turn easily, thereby extending their lifetime and performance. It is a Synthetic valve lubricant which reduces friction during operation of valves.

#### **Application :**

AMPAC – HS 300 is waterproof and will not harden, adheres to metal assuring protection against rust and corrosion. It is resistant to H<sub>2</sub>S, CO<sub>2</sub>, hot oil, diesel, hydrochloric acid, brine, water and drilling fluids.

**INSOLUBLE IN WATER**

**RESISTR WASH OUT**

**NON HARDENING**

**COMPATIBLE WITH OTHER LUBRICANTS**

**H<sub>2</sub>S, CO<sub>2</sub> SERVICE**

**NON MELTING**

**LUBRICATES VALVE INTERNAL**

**REDUCES FRICTION DURING OPERATION OF VALVES**



# TECHNICAL DATA SHEET

## AMPAC - HS 300

AMPAC- HS 300	
Prod Code	AMPAC HS 300
Appearance	Black, smooth, tacky
NLGI	2
Penetration	265-300 (ASTM D217)
Flash Point	>550°F (260°C)
Thickener	Inorganic
Worked Penetration, 60x (ASTM D217)	265-300 (ASTM D217)
Base Oil	Natural and Synthetic ester
Base Oil Viscosity	1000 cSt at 40°C
Solids Content	Graphite
Dropping Point (ASTM D566)	>500°F (260°C) (ASTM D566)
Base Oil Pour Point	-10°F (-12 °C)
Temperature Range	-20°F to 350°F (-29°C to 177°C)
Additives	H2H/Corrosion Inhibitor package
Specific Gravity	1.0
Density (lb/gal)	8.5

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# ***TECHNICAL DATA SHEET***

## **AMPAC – 625 Stem Pak**

### *Valve Stem Pak*

#### **Product Description:**

**AMPAC – 625 Stem Pak** is the base fluids provide a very low coefficient of expansion (from -80°F to 500°F) while being oil resistant. It is most popular blend of 100% base oils with synthetic fibres and fillers that provide a sure seal.

#### **Application:**

AMPAC- 625 Stem Pak is pumpable a high pressure (10,000 PSI) lubrication handgun. It can be used in hydrocarbons, steam, water, sour gas, and sour crude.

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# TECHNICAL DATA SHEET

## AMPAC – 625 Stem Pak

AMPAC 625 Stem Pak	
Prod Code	AMPAC 625 Stem Pak
Appearance	Green, Grainy
NLGI	>6
Penetration	30-60 (ASTM D217)
Flash Point	>450°F (260°C)
Thickener	Inorganic
Base Oil	Synthetic
Base Oil Viscosity	60,000 cSt at 25°C
Solids Content	Synthetic Fiber, Fillers
Dropping Point (ASTM D566)	>500°F (260°C) (ASTM D566)
Base Oil Pour Point	-40°F (-40 °C)
Temperature Range	-80°F to 500°F (-62°C to 260°C)
Specific Gravity	1.4
Density (lb/gal)	11.9



## **TECHNICAL DATA SHEET**

### **AMPAC AMG – 1263**

#### *Lithium Complex EP*

#### **Product Description:**

**AMPAC AMG – 1263** is multipurpose grease formulated as a wide ranging with excellent extreme pressure resistance, shear ability, shelf life. Water resistance, and anti corrosion properties, offering the additional protection to meet today's high performance requirement.

#### **Applications :**

Extreme pressure sliding applications, Roller bearing, ball bearings, journal bearing and also excellent for general industrial use.

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# TECHNICAL DATA SHEET

## AMPAC AMG - 1263

AMPAC - 625 Stem Pak	
Prod Code	AMPAC AMG - 1263
Appearance	Amber, Smooth
NLGI	2
Penetration	265-295 (ASTM D217)
Worked Penetration,60x	265-295 (ASTM D217)
Flash Point	>455°F (235°C)
Thickener	Lithium Complex
Base Oil	Mineral Oil
Base Oil Viscosity	11 cSt at 100°C
Dropping Point (ASTM D566)	>500°F (260°C) (ASTM D566)
Base Oil Pour Point	-10°F (-23 °C)
Temperature Range	-80°F to 500°F (-62°C to 260°C)
Specific Gravity	0.9
Density (lb/gal)	7.5

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# *OILS*

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# TECHNICAL DATA SHEET

## AMPAC – H Series

### *Hydraulic Oils Series*

**AMPAC – H Series** are high performance heavy duty and anti-wear oils designed for high performance in hydraulic systems. They are tailored to promote energy efficiency and foam suppression. They can withstand elevated temperatures and high pressures which results in lower maintenance costs by reducing ring and vane wear, thus extending pump life.

#### **Applications**

**AMPAC – H Series** are of the dual-purpose or multi-functional type for use in hydraulic applications, air compressors, turbines, gear cases, and general lubrication. They are designed for severely stressed hydraulic systems requiring a high level of anti wear performance and fine filtration. Meet or exceed the following Vickers and Denison severe oxidation, wear and corrosion tests specifications.

#### **ADVANTAGES:**

- Excellent hydrolytic stability.
- Reduced pump wear
- High natural V.I. for stable viscosities throughout a wider operating temperature range.
- High Aniline Points for controlled seal-swelling characteristics.
- Excellent Rust and Corrosion Resistant Properties.
- Chemical and Mechanical Stabilities.
- Foam Suppression Properties.
- Good Heat Transfer Properties.
- Thermal Oxidation Stability.
- Good Demulsibility Properties.



**TYPICAL PROPERTIES**

AMPAC – H Series Hydraulic Oils Series							
Prod Code	TEST METHOD ASTM	AMHO 2401	AMHO 2402	AMHO 2403	AMHO 2405	AMHO 2406	AMHO 2407
PROPERTY		TYPICAL RESULTS					
		HO-22	HO-32	HO-46	HO-68	HO-100	HO-150
Viscosity SUS @ 100°F cSt @ 40°C SUS @ 210°F cSt @ 100°C	D2161	125	137	197	336	430	690
	D445	26	33	43	74.3	95.2	151.2
	D2161	43	45	48	57.2	62.5	75
	D445	4.9	5.35	6.8	9.5	12	15.02
Viscosity Index	D2270	100	116	104	104	101	98
Flash Point	D92	218°C	218°C	243°C	260°C	263°C	263°C
Fire Point	D92	238°C	238°C	263°C	279°C	289°C	291°C
API Gravity	D287	33	33.8	32.5	31.8	30.6	29.2
Color	D1500	<1.0	<1.0	<1.0	<1.0	<1.5	<2.5
Pour Point	D97	-37°C	-37°C	-34°C	-26°C	-23°C	-18°C
ISO Grade		22	32	46	68	100	150
Oxidation	D943	Typically above 3,000 HR					
4-Ball Wear	D2266	0.50 mm	0.50 mm	0.43 mm	0.46 mm	0.46 mm	0.46 mm
Dielectric Strength	D877	Typically above 35 kV					





# TECHNICAL DATA SHEET

## AMPAC – C Series

### *Air Compressor Oils*

**AMPAC – C Series** are superior quality anti-wear air compressor oils. They are recommended for use compressor application where long lubricant service life is required and other applications where a high quality anti-wear type oil is required.

**AMPAC – C Series** are formulated from the finest high quality base stocks and further fortified with high performance additives to enhance their capability.

**AMPAC – C Series** considerably reduce the necessity of cleaning and other maintenance, provide excellent protection against wear, as well as increase productivity and provide excellent filtration characteristic. They have excellent demulsification ability to prevent water from deteriorating internal components and their superior oxidation resistant enables extended oil drain interval, with significant reduce sludge, varnish and carbon deposit on interval parts.

**AMPAC – C Series** meet the performance requirements of Hagglands-Denison, Trinova Vickers, Cincinnati Milacron, Lee Norse, Jefferey and others.

### TYPICAL PROPERTIES

AMPAC – C Series Air Compressor Oils						
Prod Code	AMCO 3801	AMCO 3802	AMCO 3803	AMCO 3804	AMCO3805	Test Method
ISO Grade	32	46	68	100	150	-
Viscosity @100°C, cSt	5.2	6.6	8.4	11.1	14.5	ASTM D445
Viscosity@40°C, cSt	31	45	66	101	150	AST D445
Flash Point °C	241	235	244	259	277	ASTM D92
Pour Point °C	-24	-21	-18	-15	-15	ASTM D97
Gravity, API	31.9	30.7	29.6	28.6	28.0	ASTM D4052
Viscosity Index	97	96	96	94	94	ASTM D2270
Density	0.8656	0.8714	0.8742	0.8747	0.8787	-

These properties are typical of the current production. Variations that do not affected product performance are to be expected depending on blending and manufacturing locations. The information contained herein is subject to change without notice.

#### Health and Safety:

This product in unlikely to have any adverse health implications or safety hazard when used for its intended application. Avoid contact with skin. Use resistant gloves when handling used oil. For complete information on safe handling and product refer to MSDS.



# TEHNICAL DATA SHEET

## AMPAC – GBO Series

### *Multi-purpose Gear Box Oil Series*

**AMPAC – GBO Series** is a multi-purpose type gear lubricant, which uses a sulfur-phosphorus additive treatment to provide extreme pressure properties. This Gear Oil is designed to protect critical automobile gears. The additives also supply anti-scuff and anti-wear properties to these gear oils

**AMPAC – GBO Series** is blended to meet the multi-grade viscosity requirements described in the SAE J306a recommended practice. This oil is formulated with naturally high VI viscosity index improve as to meet the multi-grade viscometric properties of the grade offered. This lubricant will not lose viscosity through shear.

**AMPAC – GBO Series** is available in two viscosity grades (SAE 90 and 140) for use at ambient temperatures down to - 15 F. Equipment manufacturers recommendations should be followed when the gear lubricant is subject to high ambient temperatures.

#### **APPLICATIONS:**

**AMPAC – GBO Series** may be used where the equipment manufacturer recommends a product at the lower performance level of former Military Specifications MIL-L-2105.

This gear oil is recommended for conventional (manual) transmissions, differentials, final drives and other gear cases of trucks, buses, cars, farm tractors and earth moving equipment where extreme pressure, hypoid or multi-purpose gear oils of GL-4 performance level are required.

#### **KEY FEATURES:**

- Maintains viscosity throughout Its useful life
- Anti-scuff and anti-wear Properties

#### **CUSTOMER BENEFITS:**

- Protects critical automobile gears
- For use down to – 15 F.



**TYPICAL PROPERTIES**

<b>AMPAC – GBO Series Multi-purpose Gear Box Oil Series</b>			
Prod Code	AMO 0150	AMO 0151	Test Method
ISO Grade	90	140	-
Flash Point, °F	510	537	ASTM D92
Pour Point, °F	0	10	ASTM D97
API	28.5	27.5	ASTM D4052
Viscosity Index	98	95	
Viscosity @ 40 °C. cSt	218.7	450	ASTM D445
Viscosity @ 100 °C. cSt	19.1	30	ASTM D445
Viscosity @ 100 °F SUS	1156	2412	ASTM D445
Viscosity @ 210 °F SUS	97.2	147	ASTM D445



# TECHNICAL DATA SHEET

## AMPAC Air Tool Tool Lubricants

### PRODUCT DESCRIPTION:

**AMPAC Air Tool** Lubricant provides not only superior lubrication, but dissolves and prevents the formation of gum and varnish deposits so often associated with air tool operations.

**AMPAC Air Tool** Lubricant is an air tool oil that 'provides excellent lubrication for both rotary and reciprocating types of air tools, such as chipping hammers, impact wrenches, air motors, grinders, reamers, drills, etc. It can be fed through an airline lubricator, or applied directly into the tool through the quick coupling air connection.

### Advantages

For the most in safe, simple and economical lubrication of rotary and reciprocating types of air tools, small amounts of AMPAC Air Tool Lubricant, used daily, will effectively lubricate the air too keeping it clean and free-running.

### Applications

AMPAC Air Tool Lubricant ,as an air line lubricant, has been used very effectively on the lift cylinders of can fillers in breweries, bottling plants and canning plants, keeping the cylinders clean and eliminating hand cleaning.

### TYPICAL PROPERTIES

AMPAC Air Tool Tool Lubricants		
Prod Code	AMO 0250	Test Method
ISO Grade	32	ASTM D-2422
Viscosity@40°C,eSt	30	ASTM D-445
@100 °F	147	ASTM D-2161
@100 °C	5	ASTM D-445
@210 °F	44	ASTM D-2161
Viscosity Index	120	ASTM D-2270
Flash Point,°C	385 °F/196 °C	ASTM D-92
Aniline Point	200 °F/93 °C	ASTM D-611
API Gravity	27.4	ASTM D-287
Pour Point	-30 °F/-34 °C	ASTM D-97





# TECHNICAL DATA SHEET

## AMPAC SYNGEAR OILS SERIES

*Synthetic (PAO) Industrial Gear Oils*

### **PRODUCT DESCRIPTION:**

**AMPAC SYNGEAR OILS** are superior quality synthetic, Polyalphaolefin (PAO) based lubricant which provide numerous benefits , such as exceptionally high oxidation resistance, minimum sludge and varnish formation and increased oil life. The product also provides significant wear reduction, a broad operating temperature range, plus high lubricity and film strength.

**AMPAC SYNGEAR OILS** are recommended for use in air compressors, bearings, circulating oil systems, enclosed gear drives and other equipment operating in severe service. Due to its additive properties, it is able to withstand extreme pressures and will remain reliable even with shock loads.

### **Product Features:**

- Good oxidation resistance
- Wide operating temperature range
- Great resistance to rust and oxidations

### **APPLICATIONS:**

- Extreme Pressure Gears and Hydraulics

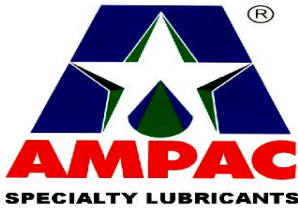
### **BENEFITS:**

- Increase oil life
- Significant wear reduction
- \* Improves gear efficiency



**TYPICAL PROPERTIES**

<b>AMPAC SYNGEAR OILS Synthetic (PAO) Industrial Gear Oils</b>									
Prod Code	AMSGO 3511	AMSO 3512	AMSO 3513	AMSO 3514	AMSO 3515	AMSO 3516	AMSO 3517	AMSO 3518	Test Method
ISO Grade	32	46	68	100	150	220	320	460	-
Density Lbs./Gal@15°C	7.05	7.09	7.13	7.15	7.17	7.18	7.20	7.19	
Flash Point °C	238	255	268	269	271	273	275	278	ASTM D92
Pour Point °C	-42	-36	-33	-30	-30	-27	-27	-27	ASTM D97
Viscosity @40°C cSt	32	46	68	100	150	220	320	460	ASTM D445
Viscosity @100°CcSt	5.8	7.6	10.2	14.3	20.1	27.8	38.6	54.8	ASTM D7042
Viscosity @100 °F, SUS	164	236	349	513	771	1133	1651	2371	
Viscosity@210°F,SUS	46	52	61	77	101	136	187	264	
Viscosity Index	128	131	135	146	156	164	171	185	
4 Ball Wear, mm	0.40	0.40	0.40	0.40	0.40	0.38	0.38	0.37	
RBOT, Mins	1400+	1400+	1400+	1400+	1400+	1400+	1400+	1400+	



# TECHNICAL DATA SHEET

## AMPAC FLUSHING OIL

### *Flushing Oil*

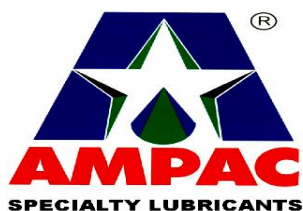
**AMPAC - FLUSHING OIL** is a very low sulphur content non-detergent Industrial Group II flushing oil that is suitable for the flushing removal of light hydrocarbon based Industrial fluid systems.

#### Performance, Features & Benefits :

- **Light viscosity**  
**AMPAC - FLUSHING OIL** is an ISO VG 32 fluid and is light enough to penetrate into remote reservoirs in hydraulic and turbine systems. Its wide range in viscosity and high flash point make it suitable for use in flushing heat transfer systems as well.
- **Hydrocarbon based**  
**AMPAC - FLUSHING OIL** is hydrocarbon based and is fully compatible with most hydraulic, turbine or heat transfer system materials. It meets the requirements of JIS K 2213 Type 1 (without additive) and MHI Power Type 1 Flushing Oil.
- **Non-detergent**  
**AMPAC - FLUSHING OIL** is a non-detergent fluid and therefore can be used with full confidence in calcium sensitive environments.

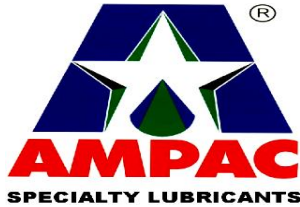
#### Main Applications :

- **AMPAC - FLUSHING OIL** is an ISO VG 32 grade non-detergent flushing oil suitable for use
- in hydraulic, turbine or heat transfer systems requiring comprehensive cleaning and fluid extraction before recharge. It is based on Group II base oils.
- **AMPAC - FLUSHING OIL** does not contain detergents and can be used with confidence in systems requiring nil contamination from calcium, detergent or soap containing materials.
- **AMPAC - FLUSHING OIL** is hydrocarbon based. It has been severely hydro processed.



**TYPICAL PROPERTIES**

<b>AMPAC FLUSHING OIL    Flushing Oil</b>			
Prod Code		AMFO 4905	Test Method
ISO Grade		32	ASTM D2422
Total Sulphur	Mg/Kg	<10	ASTM D2622
Zinc Content	Mg/Kg	<5	
Kinematic Viscosity @ 40°C	cSt	30	IP 71
Density @15°C	Kg/ liter	0.865	IP 365
Pour Point	OC	-15	IP 15
Flash Point (closed cup)	OC	215	ASTM D 93
Total Acid Number	Mg KOH/g	<0.03	ASTM D 974
Air Release @50°C	mins	1	IP 313



# TECHNICAL DATA SHEET

## AMPAC SYNCOMP OILS SERIES

### *Synthetic Compressor Oils*

#### **PRODUCT DESCRIPTION :**

**AMPAC SYNCOMP OILS SERIES** 32 through 68 are advanced high performance, zinc-free synthetic fluids for industrial machine applications. These fluids are 100% synthetic based products formulated with a combination Of PAO and ester technology which provide several advantages over mineral oil based products.

#### **Features&Benefits :**

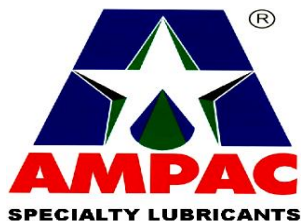
- Energy savings
- Extended Drain Intervals over 8000hrs
- Excellent rust and corrosion protection
- Water resistant
- Low varnish and carbon forming tendency formulation
- Water resistant
- Fluid/Material Compatibility
- Excellent rust and corrosion protection

#### **APPLICATIONS :**

**AMPAC SYNCOMPS OILS SERIES** are recommended for rotary screw and rotary vane air compressors. These synthetic fluids are excellent for high temperature bearing and chain applications as well as situations Striving for improved efficiency and extended drain intervals. They are also excellent products for centrifugal Air compressors, all types of hydraulic systems and turbine oil application

#### **TYPICALPROPERTIES**

<b>AMPAC SYNCOMP OILS SERIES Synthetic Compressor Oils</b>				
Prod Code	<b>AMSCO 6502</b>	<b>AMSCO 6503</b>	<b>AMSCO 6504</b>	TEST
ISO Grade	32	46	68	
Viscosity eSt@40°C	32	46.1	68.3	ASTMD445
Viscosity eSt @100°C	6	8	10	ASTM D445
Viscosity Index	136	138	141	ASTMD2270
Pour Point	-70°F/-57°C	-65°F/-54°C	-60°F/-51°C	ASTMD97
Flash Point	470°F/243°C	485°F/250°C	515°F/267°C	ASTMD92
Fire Point	505°F/263°C	550°F/288°C	580°F/304°C	ASTM D92
API Gravity	37.0	37.4	37.8	ASTM D287
Density (Pounds/Gallon)	6.993	6.976	6.960	ASTMD1298
ISO Viscosity Grade	32	46	68	
Auto ignition Temperature(734°F)	>700°F	>700°F	>700°F	ASTM E659
4-Ball Wear Test	0.4mm	0.4mm	0.4mm	ASTM D4172
Copper Corrosion	1a	1a	1a	ASTM D130
Conradson Carbon Residue	Nil	Nil	Nil	ASTM D189
Demulsibility	40-40-0(10)	40-40-0(10)	40-40-0(20)	ASTM
Rust Test Procedure B	Pass No Corrosion	Pass No Corrosion	Pass No Corrosion	ASTM D665
Rotating Bomb Oxidation Test(Minutes)	>2000	>2000	>2000	ASTM D2272
Foaming Sequences I,II,III	NIL	NIL	NIL	ASTMD892



# TECHNICAL DATA SHEET

## AMPAC LVG Heat Transfer Fluids

AMPAC LVG are made with select mineral type oils with specialized components to improve performance in industrial heat transfer systems. They are very stable and maintain very good heat transfer properties for very long fluid life.

### APPLICATIONS

AMPAC LVG are intended for either direct or indirect transfer systems and can be used in open systems with expansion tank temperatures up to 365°F and in closed systems with expansion tank temperatures up to 600°F. Consult manufacturer or installer guidelines for appropriate grade.

### FEATUES AND BENEFITS

- Very good heat transfer qualities.
- Excellent resistance to thermal decomposition and coking.
- Excellent resistance to oxidation and deposit formation.
- Low volatility to help prevent vapor lock.
- Non-toxic, non-corrosive.
- Low odor, very good seal compatibility.
- Can be used as a coolant ,in systems where heat is required to be maintained or reduce.

AMPAC LVG Heat Transfer Fluids		
Prod Code	LVG 822	Test Method
Viscosity, eSt @ 40°C	19.8	ASTM D-445
Viscosity , eSt @ 100°C	4.2	ASTM D-445
Viscosity Index	98	Calculated
Flash Point, COC, °F (°C)	405 (207)	ASTM D-92
Aniline Point, °F (°C)	216 (102)	
API Gravity, 60°F	19.5	ASTM D-4052
Specific Gravity @ 60°F	0.86	
Density , Lbs/gal.	7.23	



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## ***CLEANER & DESCALER***

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# TECHNICAL DATA SHEET

## AMPAC Super WB

### *Industrial Cleaner & Degreaser*

**AMPAC Super WB** Industrial Cleaner & Degreaser is a safer alternative to toxic cleaners & solvent. The water based fast-acting, non-chlorinated, concentrated cleaner/degreaser is environmentally and user friendly.

#### **APPLICATION:**

- Versatile formula can be used to clean and degrease all washable surfaces.
- Surface preparation before coating or painting.
- Cleaning part after machining.
- As a safe, nontoxic, biodegradable part

#### **USES:**

- Normal Cleaning: 1part **AMPAC Super WB** / 5 to 10 part of water
- Heavy-Duty Cleaning: 1part **AMPAC Super WB** / 1 to 5 part of water
- Super Heavy-Duty Cleaning: Use Full-Strength

#### **TYPICAL PROPERTIES**

<b>AMPAC Super WB Industrial Cleaner &amp; Degreaser</b>	
Texture	Water Texture
Color	Yellow
Flash Point	None
Pour Point	Same As Water
Ph Level	11
Specific Gravity	1.05 – 1.07 Typical





# TECHNICAL DATA SHEET

## AMPAC TRITONIUM BLUE

### *Heavy Duty Cleaner*

AMPAC TRITONIUM BLUE is the right solution for your toughest cleaning jobs.

AMPAC TRITONIUM BLUE is a concentrated water based butyl cleaner/degreaser with a refined surfactant system that not only penetrates and lifts the grease, grim and dirt from the surface, but emulsifies them as well. The multi-purpose, heavy duty cleaning action leaves surfaces clean and free of residue.

#### Features/Benefits :

- Highly concentrated
- Leaves no film
- Emulsifies grease
- Fast acting
- Remove grease, wax, gum, dirt, ink, carbon, oil and lipstick
- Non corrosive to most surfaces
- Safe on metal
- Safe on plastic
- Safe on rubber
- Rinses residue free

#### Advantages :

Simple and quick-to-use, minimizing costly make ready time in between jobs.

#### Where to use :

1. Floors
2. Machinery
3. Walls
4. Heavy equipment
5. Cleaning part after machining
6. Metal part
7. Glass and windows

### TYPICAL PROPERTIES

AMPAC TRITONIUM BLUE Heavy Duty Cleaner	
Texture	Water texture
Appearance	Transparent Blue
Flash Point	Same as water
pH 20% Diluted in DI Water, 25°C (77°F)	11
pH, Concentrate, 25°C (77°F)	12
Specific Gravity	1.02



# TECHNICAL DATA SHEET

## AMPAC HCC (Hydrocarbon Cleaner) Concentrated Cleaner

**AMPAC HCC** is liquid concentrate from the hydrocarbon compounds (Solvent Base), functions to break down the carbon chain and dissolve it together into its oil exist.

**AMPAC HCC** is a versatile cleaner solvent concentrated liquid that can be used to clean carbon, varnish and sludge which are usually found inside the machines.

### Application :

- Hydraulic Systems
- Gearboxes
- Diesel Engines
- Heat Transfer Systems
- Bearings
- Vacuum Pumps
- Compressors

### Features/Benefits :

- Economical to use
- Solubilizes and remove harmful varnish and sludge
- Compatible with mineral oils and synthetic hydrocarbons
- Clean engine as originally
- Dirt-clogging dissolved
- Durable filters

### Cleaning Procedure :

We recommended the use of 5 - 10%, of AMPAC HCC into the machine, run 1-2 hours without load, then discard, for the dirty machine use the maximum time.

### TYPICAL PROPERTIES

AMPAC HCC (Hydrocarbon Cleaner) Concentrated Cleaner	
Color	Light Brown
Odor	Slight Hydrocarbon
Viscosity 40°C, cSt	15
Flash Point °C (°F)	108°C (226.4°F)
Specific Gravity. Kg/L	0.87



# TECHNICAL DATA SHEET

## AMPAC SB-778

### Electric Motor Cleaner

AMPAC SB-778 is a non-flammable, non-conductive and non-corrosive solvent based degreaser. It can be used on operating equipment and electrical systems without concern as to fire hazard. The product instantly cuts through power-robbing grease, dirt, grime, tar, oil and other materials usually found around electrical equipment, machine shops, manufacturing plants, marine electrical instrumentation and automotive applications.

AMPAC SB-778 removes these conductive soils that could otherwise cause dangerous electrical short circuits. Applied at regular intervals together with routine inspection and periodic maintenance. AMPAC SB-778 will assure continued, high output and prolong the life of electrical equipment.

#### Features / Benefits :

- Non-flammable
- Non-conductive
- High dielectric strength
- Fast penetration – high solvency

#### Directions :

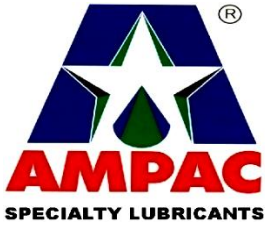
Parts to be cleaned can be immersed in AMPAC SB-778 or cleaned with spray or brush. Residue should be removed with dry air, taking care to avoid splatter. Dry before returning to service. On Plastic, paint or rubber, test small area before using, Be certain to re lubricate as necessary

#### TYPICAL PROPERTIES

AMPAC SB-778 Electric Motor Cleaner	
Form	Clear, Colorless
Specific Gravity	1.6
Flash Point	None
Density	1.6 kg/l (13 lbs/gal)
Residue	None
Dielectric Strength (ASTM D-877)	24.2 Kv

#### Application Area :

- . Electric Motor
- . Machine Shops
- . Automotive
- . Electric Equipment
- . Blowers/Fans
- . Manufacturing



# TECHNICAL DATA SHEET

## AMPAC SB-705

### Heavy Duty Solvent Cleaner

**Product Description :**

**AMPAC SB-705** is a highly efficient heavy-duty solvent cleaner for industrial. Ideal for cleaning and surface preparation, Asphalt & Tar Remover.

**AMPAC SB-705** requires thorough rinsing for effective use and results. It is most effective for exterior application .

**Features / Benefits :**

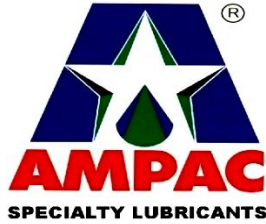
- Removes deposits of asphalt and tar.
- Excellent for cleaning oil, grease and tar

**Preparation :**

- Protect people, vehicles, property and all solvent sensitive surfaces from contact with cleaner, rinse water, wind drift and fumes. Divert or protect auto and foot traffic . Fill or cracks and void to prevent penetration of fumes into building . Do not discharge rinse water into sewers and waterways .
- **AMPAC SB-705** may be damage synthetic finishes (such as window gaskets, caulking, sealant, acrylic or polycarbonate sheeting, reflective films and plastic) wood , roofing materials, paint and all solvent-sensitive surfaces.
- Extinguish all flames, pilot lights and other prevent penetration of fumes into building potential sources of ignition during use and until. Do not Ensure fresh air entry and cross ventilation.
- When applying to exteriors of occupied buildings make sure all windows, exterior intakes and air conditioning vents are covered and air handling equipment is shut down

**TYPICAL PROPERTIES**

AMPAC SB-705 Heavy Duty Solvent Cleaner	
Form	Clear liquid, aromatic odor
Specific Gravity	0.963
pH	Not Applicable
Wt/Gal	8.01 lbs
Active Content	Not Applicable
Total Solids	Not Applicable
VOC Content	Not Applicable
Flash Point	79°C (ASTM D3278)
Freeze Point	<-22°F (<-30°C)
Shelf Life	2 years in tightly sealed unopened container



# TECHNICAL DATA SHEET

## AMPAC - CPS 22 C

### *Spindle Cleaner*

**AMPAC - CPS 22 C Spindle Cleaner** is a water-soluble oil-based liquid that will mix with water of any hardness. To produce proper emulsion, Mix according to directions provided. It is non-flammable when mixed with water. Correct use of this product will clean dirt, plant materials and other foreign contaminants from the spindles. Cleaner spindles mean reduced wrapping and staining, which in turn yields cleaner cotton.

#### **DIRECTIONS:**

1. Clean moistener system of wetting agents and cleaners and fill moistener tank 1/2 full of water (water and cleaner will not mix if cleaner is poured into empty tank first and water is added later)
2. Agitate the water by operating the moistener control water system. This will recirculate the water back to the supply tank
3. While the water is agitating, slowly add the spindle cleaner to the water at the ratio of one gallon to 70 gallons of water (Note: depending on water hardness treat rates may vary from 50:1 to 100:1)
4. Finish filling with water while agitating. After tank is filled, allow agitation to continue for about five minutes.

#### **NOTE :**

For best results the mixture should be used within 24 hours. If mixture is allowed to stand for extended time, agitate for several minutes before picking. Additional cleaner can be added for make-up in a tank already containing some previous mixture. If tank is less than half full, then fill with plain water until half full. Follow mixing directions and add cleaner at the correct ratio for the amount of water being added for make-up.

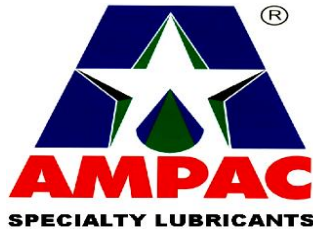
#### **STORAGE :**

Drums and pails of spindle cleaner concentrate should be stored to avoid possible contamination with water. If water gets into drum or pail, it will cause curdling. In the event of having to store outdoors, place drums on sides with bungs in horizontal position.



**TYPICAL PROPERTIES**

<b>AMPAC - CPS 22 C Spindle Cleaner</b>		
Color	<2.0	ASTM D1500
API	23.02	
Lbs/Gal	7.626	
Flash Point °F	155	ASTM D92
Pour Point °F	-42	ASTM D97
Density	0.91522	
Specific Gravity	0.91573	ASTM D4052
Viscosity @ 100°C, cSt	3.159	ASTM D445
Viscosity @ 40°C cSt	19.94	ASTM D445



# **TECHNICAL DATA SHEET**

## **AMPAC Scale Remover**

### *Acid Cleaner & Descaler*

**AMPAC Scale Remover** specially formulated to effectively dissolve and remove scale, sum and mineral deposits from : porcelain, ceramic, glass, chrome, acrylic, fiberglass and stainless steel.

**AMPAC Scale Remover** is a concentrated water based, Non-flammable, Organic salt solution & Grape Fragrance.

#### **Features/Benefits :**

- It does an outstanding job where other chemical fail.
- It is safe to use it is non-toxic
- No needs neutralizer
- Remove scale, scum and mineral deposits
- Cause no corrosion on thorough rising
- It is safe on hands and easy to handle
- It is economical to use-it is highly concentrated and in many operations may be diluted with water

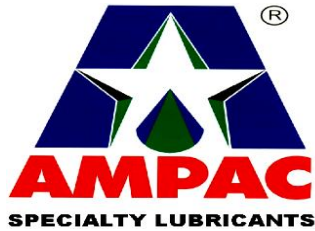
#### **Directions for use :**

Always spot test on a hidden area of surface first.

- Spray on to surface, or apply with a damp sponge or cloth
- Scrub around fixtures with a stiff, non-metallic brush to loosen heavy deposit build-up
- Immediately rinse thoroughly for shiny, clean result.

#### **Advantages :**

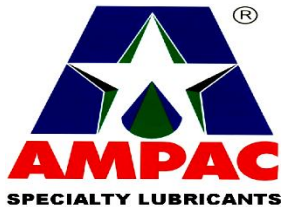
Simple and quick-to-use, minimizing costly make ready time in between jobs



**TYPICAL PROPERTIES**

<b>AMPAC Scale Remover Acid Cleaner &amp; Descaler</b>	
Texture	Water texture
Appearance	Brown
Flash Point	Same as water
pH	Acid to Litmus paper
Operating Temperature	Room Temperature
Specific Gravity	1.08
Tank for Use	Plastic (P.V.C, P.E.)
Chemical Group	Blend of Acids/salt/Inhibitors
Uses	<ul style="list-style-type: none"><li>• Descaling (Boilers, cooler tower)</li><li>• Cleaning of metal sheets, copper pipes</li><li>• Cement Removal</li></ul>
Storage	Store in dry, Ventilated place
Restrictions on Use	Dilute up to 15 times with water before disposal. If possible, neutralize with alkali. Do not use in conjunction with other chemicals OR with on surfaces not resistant to acids.





# **TECHNICAL DATA SHEET**

## **AMPAC SUPER RC**

### *Rust Remover*

**AMPAC SUPER RC** is based on chloride free chemical & additive solution in water. It is used as rust remover which effectively cleans rust from metal surfaces.

**AMPAC SUPERRC** It cleans tarnish, oxidation, stain sand scale from iron, steel, copper, brass and aluminum.

#### **Features / Benefits :**

- Excellent wetting capacity on both ferrous and non-ferrous metals.
- Economical concentrate.
- Can be diluted with water to any concentration needed Safe to use on all metals, Concrete or wood.
- Contains no chloride hence no chance of enhancing further corrosion

#### **Direction For Use :**

Two factors are to be considered that a degree of corrosion products and the speed of removal required. The higher dilution is satisfactory for light rust and scale removal while lower dilution should be used for heavy rust and scale deposits. The speed of removal increases rapidly with temperature which can range from ambient to 80°C. The immersed components are then treated with repeated water rinsing to remove the excess acid and to provide a clean surface before subsequent processing.

Heavy rust and scale (ferrous metals). Metal should be immersed 20 minutes to 1hour. Remove and rinse metal with water and treat immediately with Super Tritonium Blue for water displacement and corrosion protection.

Heavy corrosion (non-ferrous) : dilute concentrate with 7 to 10 parts water . Metal should be immersed 20 minutes to 1 hour. Periodically check non-ferrous metals. Remove and rinse with water. Treat immediately with Super Tritonium Blue for water displacement and corrosion protection.



**TYPICAL PROPERTIES**

<b>AMPAC SUPER RC</b>		<b>Rust Remover</b>
Appearance		Clear Liquid – Pinky
Specific gravity (@200C)		1.5
Flash Point		None
pH (@200C)	Concentrate	1
	diluted 1/10	1.8
	diluted 1/20	2.0



# TECHNICAL DATA SHEET

## AMPAC Valve Cleaner

### **Product Description**

**AMPAC Valve Cleaner** is formulated from base oils of low viscosity which have been used in the formulation of most valve lubricants and sealants. It will dissolve or soften the hardened or dried lubricants, lacquer and residual gum deposits in a valve which will make it hard to operate.

### **Applications**

**AMPAC Valve Cleaner** This product is not lubricant or sealant, and is compatible with other sealants and lubricants. Use much of this product as the valve will take, then wait 20 minutes and try to operate the valve. If the valve will turn, work it back and forth to make sure the product can get into all passages and around the plug. If after first application the valve will not turn, wait 20 minutes, then repeat the application. After procedure is completed a recommended valve lubricant/sealant should follow.

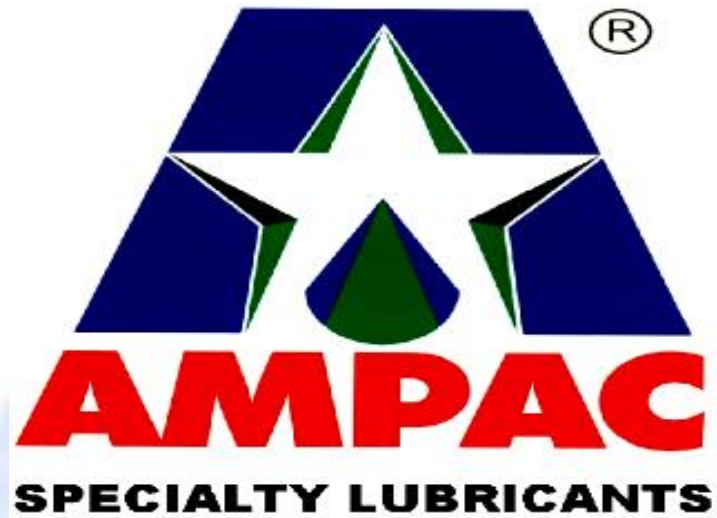
NON TOXIC-HAZARDOUS MATERIAL (DOES NOT CONTAIN OZONE DEPLETING SUBSTANCE)

FLASH POINT ABOVE 400 °F

NON FLAMMABLE

### **TYPICAL PROPERTIES**

AMPAC Valve Cleaner		
Product Code	AVC-1	AVC-2
Base Oil	Synthetic	Synthetic, Alcohol
Dropping Point	Non Dropping	Non Dropping
Shelf Life	5 years	Indefinite
Oxidation Stability	Good	Good
Temperature Range	-30 °F to +500 °F	-30 °F to +250 °F
Penetration	N/A	N/A
Thickener	N/A	Inorganic
Filler	N/A	Molybdenum Disulfide
Color	Amber	Black



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# ***AEROSOL***

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## TECHNICAL DATA SHEET

### AMPAC Act Wire Rope & Chain Lubricant (AEROSOL) (Black)

#### Product Description :

**Act Act Wire Rope & Chain Lubricant (Black)** is a high performance lube that penetrates the pores of metal surfaces to reach the core of core of wire rope. This heavy-duty lubricant provides a wide range of lubrication at high temperature while adhering extremely well to surfaces. This oil is fully formulated mineral oil containing Molybdenum disulfide (MoS<sub>2</sub>) in stable suspension. It travels on metal surfaces to displace water, resulting in excellent rust protection. Can be used while equipment is in operation. Lubricates and protects wire rope to help prevent strand failure.

#### Applications :

- All types of wire rope
- Industrial Chains and Sprocket
- Tower cranes
- Bushing and pins
- Elevators
- Construction equipment
- Gates
- Roller and lift chains on material handling equipment
- Overhead cranes

#### Features/Benefits :

- A combination of superior corrosion resistant, anti-wear, rust preventive grease with effective penetrant provides the base.



**TYPICAL PROPERTIES**

<b>AMPAC Act Wire Rope &amp; Chain Lubricants(Black)</b>	
Prod Code	
Propellant	Propane and n-Butane
Appearance	Black Light Grease
Texture	Dark Grease with MoS2
Consistency	Light
Flash Point	215°C Grease, typical
Specific Gravity	0.90 for Concentrate, typical

**Storage**

Store in a cool, dry place in tightly sealed containers. Store out of direct sunlight. Do not store near heat, sparks, open flame, pilot lights, static electricity, or other sources of ignition. Do not store where temperature may exceed 49°C (120°F). Store away from oxidizing agent. Rotate stock.

**Note : Extremely flammable aerosol, SHAKE WELL BEFORE US**



# TECHNICAL DATA SHEET

## AMPAC LC Wire Rope & Chain Lubricants (Clear)

### Product Description :

AMPAC LC Wire Rope & Chain Lubricant(Clear) is clear lubricant in a slightly sticky aerosol can, penetrates, lubricates and protects moving parts by reducing friction and wear. It provides excellent rust and corrosion protection as well as outstanding water resistance and is designed to penetrate deeply into the pins and bushings of the chains.

### Features / Benefits :

- Excellent rust and corrosion
- Sticky

### Application

<ul style="list-style-type: none"> <li>• Industrial Chains and Sprocket</li> <li>• Sliding parts</li> </ul>	<ul style="list-style-type: none"> <li>• Bushing and pins</li> <li>• Conveyor chains</li> <li>• Hoist chains</li> </ul>	<ul style="list-style-type: none"> <li>• Forklift trucks</li> <li>• Many other industrial applications</li> </ul>
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### TYPICAL PROPERTIES

AMPAC LC Wire Rope & Chain Lubricants	
Prod Code	
Propellant	Propane and n-Butane
Appearance	Clear
Base Type	Mineral Oil
Flash Point °C (°F)	>185°C (>370°F)
Specific Gravity	0.882 for Concentrate, typical
Film Type	Oil
Evaporation Rate	Very Slow
Working Temp (°C)	-10°C to 150°C

### Storage :

Store in a cool, dry place in tightly sealed containers. Store out of direct sunlight. Do not store near heat, sparks, open flame, pilot lights, static electricity, or other sources of ignition. Do not store near heat, sparks, open flame, pilot lights, static electricity, or [www.surya-abadis.com](http://www.surya-abadis.com) store where temperature may exceed 49°C(120°F). Store away from oxidizing agents. Rotate stock.

**Note:Extremely flammable aerosol,SHAKE WELL BEFORE USE**



# TECHNICAL DATA SHEET

## AMPAC A - 888 Silicone Spinneret Spray *Spinneret Cleaner*

**AMPACA - 888 Silicone Spinneret Spray** is to clean the surface and fine hole soft the spinnerets by penetrating inside and removing the greasy film of oligomers and burnt polymers. The solvents being highly volatile liquids get evaporated leaving only a thin uniform film of silicone oil inside the holes and surface of spinnerets.

**AMPAC A-888 Silicone Spinneret Spray** is a propriety aerosol product having High Viscosity Silicone Oil. Its used in the product is its thermal stability and resistance to oxidation and charring in exposed conditions at high temperatures (exceeding 300°C). The Silicone Oil forms a thin film on the spinneret surface and maintains its effect for along duration due to its heat stability and low volatility.

### Application :

Spinneret, cleaning up silicone, dissolving silicone oil, remove silicone oils from metal.

### TYPICAL PROPERTIES

AMPAC A-888 Silicone Spinneret Spray	Spinneret Cleaner
Prod Code	A-888
Appearance	Colorless
Odor	Odorless
Flash Point	350°C
Boiling Point	400°C
Melting Point	NA
Auto Flammability	Not Self Ignitable
Density	NA
Vapor Pressure	NA
Viscosity at 40°C	80cst
Solubility in Water	Non Miscible

### Storage :

Store in a cool, dry place in tightly sealed container. Store out of direct sunlight. Do not store near heat, sparks, open flame, pilot lights, static electrical, or other sources of ignition. Do not store where temperature may exceed 49°C (120°F). Store away from oxidizing agents. Rotate stock.

**Note : Extremely flammable aerosol, SHAKE WELL BEFORE USE**





# TECHNICAL DATA SHEET

## AMPAC ECC 66

### *Electric Cleaner*

**AMPAC ECC 66** is a specially formulated to clean electric and electronic instrument and components. Lift dust, dirt, oil, grease and other deposits. Fast penetration and evaporation. Non-toxic, non-corrosive, non-conductive and non-flammable. It helps restore the performance of electric and electronic component.

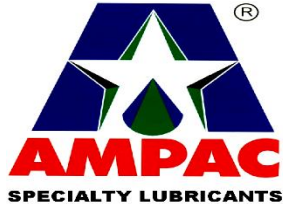
**AMPAC ECC 66** Non-Flammable Formula has a dielectric strength exceeding 30,000kV. Product use will help prevent electrical failures and restore efficiency.

#### Application

- Electrical Panels
- Circuit Breaker
- Contactor
- Connectors
- PC Board
- Computers
- Precision Electronics
- Electronic Equipment
- Telecommunication Equipment
- Marine Electronic Equipment

#### Features/Benefits

- Non-Flammable
- Non flash point
- Non-corrosive
- Non-conductive
- Safe on plastics and metal



**TYPICAL PROPERTIES**

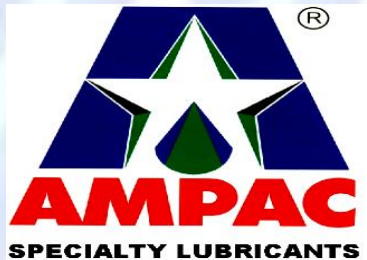
<b>AMPAC ECC 66 Electric Cleaner</b>	
Propellant	1, 2, 1,2-tetrafluoroethane
Appearance	Clear Liquid
Texture	Fast Evaporating Mist
Consistency	Light
Flash Point	No Flame Extension
Specific Gravity	0.77 – 0.79 for Concentrate, typical

**Storage**

Store in a cool, dry place in tightly sealed containers. Store out of direct sunlight. Do not store near heat, sparks, open flame, pilot lights, static electricity, or other sources of ignition. Store away from oxidizing agents. Rotate stock. Although aerosol is non-flammable, pooled liquid can ignite. Allow accumulated liquid to evaporate before re-energizing equipment.

**Note: SHAKE WELL BEFORE USE**

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## PRODUCS CODE

\* GREASES

NO	PRODUCT NAME	CODE
1	<b>AMPAC EP</b> <i>Multi-purpose Extreme Pressure Lithium Grease</i> - NLGI Grade 1.5	<b>AM01234</b>
2	<b>AMPAC – 100</b> <i>Multi-purpose Extreme Pressure Grease</i> - NLGI Grade 000 - NLGI Grade 00 - NLGI Grade 0 - NLGI Grade 1 - NLGI Grade 2	<b>AMG1075</b> <b>AMG1076</b> <b>AMG1077</b> <b>AMG1078</b> <b>AMG1079</b>
3	<b>AMPAC – MP Lithcomp</b> <i>Multi-purpose Lithium Complex Grease</i> - NLGI Grade 2	<b>AMG3012</b>
4	<b>AMPAC – B66 Aluminum Complex</b> <i>Heavy Duty Tacky Grease</i> - NLGI Grade 2	<b>AMG2801</b>
5	<b>AMPAC XTREME HD GREASE</b> <i>Heavy Duty High Temp Greases</i>	

	- NLGI Grade 1 - NLGI Grade 2	<b>AMG2688</b> <b>AMG2689</b>
6	<b>AMPAC – MOLY R33</b> <i>Heavy Duty, High Performance EP Grease</i> - NLGI Grade 2	<b>AMG3301</b>
7	<b>AMPAC EM Grease</b> <i>High Performance Long-life Polyurea Grease</i> - NLGI Grade 2	<b>AMG2021</b>
8	<b>AMPAC ALUMEX HD</b> <i>Slow to Moderate Speed Grease</i> - NLGI Grade 2	<b>AMG4182</b>
9	<b>AMPAC Litex Grease</b> <i>Medium Speed Grease</i> - NLGI Grade 2	<b>AMG4512</b>
10	<b>AMPAC High Speed Grease</b> <i>High Speed Grease</i> - NLGI Grade 1	<b>AMG4851</b>
11	<b>AMPAC W &amp; T</b> <i>Water Resistant High Temperature Grease</i> - NLGI Grade 2	<b>AMG4385</b>
12	<b>AMPAC WRPS Grease</b> <i>Wire Rope/Open Gear Grease</i> - NLGI Grade 1	<b>AMG5190</b>
13	<b>AMPAC - Act</b> <i>Wire Rope &amp; Chain Lubricants</i> - NLGI Grade 1	
14	<b>AMPAC - SYN OGL 77</b> <i>Synthetic Open Gear Lubricants</i> - NLGI Grade 2	<b>AMG5302</b>

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**\*SEALANTS**

NO	PRODUCT NAME	CODE
1	<b>AMPAC Plug &amp; Gate Valve Sealant – GVS 600</b>	<b>AMGVS 600</b>
2.	<b>AMPAC 601 Valve Lubricants</b>	<b>AMG601</b>

**\*OILS**

NO	PRODUCT NAME	CODE
1	<b>AMPAC - H Series</b> <i>Hydraulic Oils</i> - ISO Grade 22 - ISO Grade 32 - ISO Grade 46 - ISO Grade 68 - ISO Grade 100 - ISO Grade 150 - ISO Grade 220 - ISO Grade 320 - ISO Grade 460	<b>AMO2401</b> <b>AMO2402</b> <b>AMO2403</b> <b>AMO2405</b> <b>AMO2406</b> <b>AMO2407</b> <b>AMO2408</b> <b>AMO2409</b> <b>AMO2410</b>
2	<b>AMPAC - C Series</b> <i>Air Compressor Oils</i> - ISO Grade 32 - ISO Grade 46 - ISO Grade 68 - ISO Grade 100 - ISO Grade 150	<b>AMO3801</b> <b>AMO3802</b> <b>AMO3803</b> <b>AMO3804</b> <b>AMO3805</b>
3	<b>AMPAC - GBO</b> <i>Multipurpose Gear Box Oil Series</i>	

	<ul style="list-style-type: none"> <li>- ISO Grade 90</li> <li>- ISO Grade 140</li> </ul>	<b>AMO0150</b> <b>AMO0151</b>
4	<b>AMPAC GL-5 High Performance Extreme Pressure Gear Box Oils</b> <ul style="list-style-type: none"> <li>- ISO Grade 90</li> <li>- ISO Grade 140</li> </ul>	<b>AMO2501</b> <b>AMO2502</b>
5	<b>AMPAC XTREME GEAR OIL SERIES Heavy Duty Gear Box Oils</b> <ul style="list-style-type: none"> <li>- ISO Grade 46</li> <li>- ISO Grade 68</li> <li>- ISO Grade 100</li> <li>- ISO Grade 150</li> <li>- ISO Grade 220</li> <li>- ISO Grade 320</li> <li>- ISO Grade 460</li> <li>- ISO Grade 680</li> <li>- ISO Grade 1000</li> </ul>	<b>AMO3512</b> <b>AMO3513</b> <b>AMO3514</b> <b>AMO3515</b> <b>AMO3516</b> <b>AMO3517</b> <b>AMO3518</b> <b>AMO3519</b> <b>AMO3520</b>
6	<b>AMPAC - FLUSHING OIL Flushing Oil ISO 3</b> <ul style="list-style-type: none"> <li>- ISO Grade 32</li> </ul>	
7	<b>AMPAC SYNCOMP SYNTHETIC OILS SERIES</b> <i>Compressor Synthetic Oils</i> <ul style="list-style-type: none"> <li>- ISO Grade 32</li> <li>- ISO Grade 46</li> <li>- ISO Grade 6</li> </ul>	<b>AMSO-6502</b> <b>AMSO-6503</b> <b>AMSO-6504</b>
8	<b>AMPAC HTF</b>	<b>HTF805</b>

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**\*CLEANER & DESCALER**

NO	PRODUCT NAME	CODE
1	<b>AMPAC Super WB Industrial Cleaner &amp; Degreaser</b>	
2	<b>AMPAC TRITONIUM BLUE Heavy Duty Cleaner</b>	
3	<b>AMPAC HCC (Hydrocarbon Cleaner) Concentrated Cleaner</b>	
4	<b>AMPAC SB – 778 Electric Motor Cleaner</b>	
5	<b>AMPAC SB – 705 Heavy Duty Solvent Cleaner</b>	
6	<b>AMPAC – CPS 22 C Spindle Cleaner</b>	
7	<b>AMPAC – Scale Remover Acid Cleaner &amp; Descaler</b>	
8	<b>AMPAC SUPER RC Rust Cleaner</b>	
9	<b>AMPAC Valve Cleaner</b>	<b>AVC 1, AVC 2</b>

**\*AEROSOL**

NO	PRODUCT NAME	CODE
1	<b>AMPAC Act Wire Rope &amp; Chain Lubricant (Black)</b>	
2	<b>AMPAC LC Wire Rope &amp; Chain Lubricant (Clear)</b>	

3	AMPAC – A88 Silicone Spinneret Spray <i>Spinneret Cleaner</i>	A888
4	AMPAC ECC 66	



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