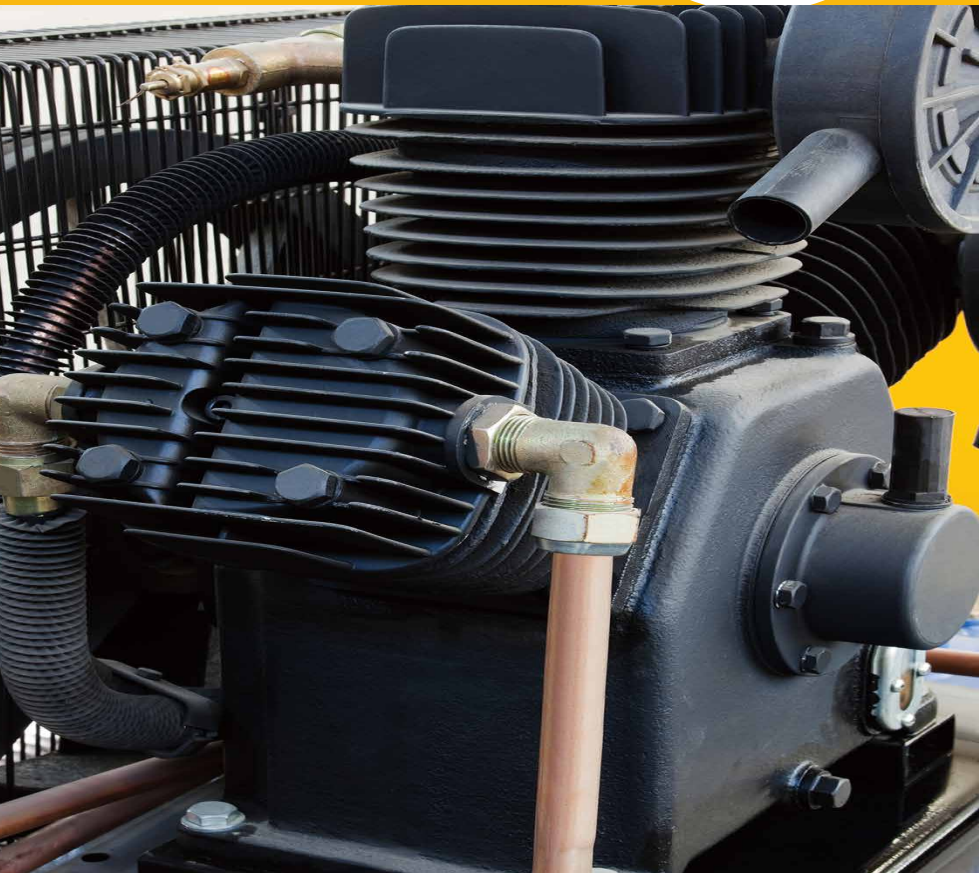




Superior Air Compressor Oil

- *Combats carbon build-up – protects against overheating & related damage.*
- *Resists oxidation – battles corrosion to extend service life of costly equipment.*
- *Helps arrest leaks – works to seal packing and piston rings.*

TRUST Save Money
OMEGA Enhance Performance
TO Extend Service Life



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OMEGA ULTIMATE LUBRICANTS

SPECIAL FEATURES

Omega 613 Superior Air Compressor Oil is the advanced air compressor and vacuum pump lubricant that provides a new dimension in safety and cost-effectiveness

- **Omega 613** combats carbon build-up – protects against overheating, high-temperature damage and even explosion.
- **Omega 613** resists oxidation – continually battles corrosion to extend the service life of expensive equipment.
- **Omega 613** helps arrest leaks – works to seal packing and piston rings.

OUTSTANDING PROPERTIES

Omega 613 is the superior air compressor oil that:

- Actually lubricates and protects valves without forming harmful carbon deposits.
- Serves as a heat-transfer medium – works to improve safety.
- Features built-in viscosity enhancers that provide the added fine clearance protection essential to long-term compressor/vacuum pump efficiency.
- Provides exceptional resistance to moisture.

USE FOR

Omega 613 has all the characteristics of a quality air compressor oil, including high chemical stability, high flash point, high thermal stability, high degree of refinement and purity, and superior supplements that suppress oil oxidation and metal corrosion.

Use **Omega 613** for:

- Screw Compressors (dry and flooded) • Rotary Compressors • Gear Compressors • Centrifugal Compressors • Twin-lobe Compressors • Axial Flow Compressors • Internally Compounded Compressors
- Mechanical pumps.



Omega

The Ultimate Lubricant

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The Ultimate Lubricant

613

DESCRIPTION:

Omega 613 is a superb air compressor & vacuum pump lubricant designed to provide a new dimension to compressor/vacuum pump safety and cost-saving functionality. The ideal characteristics such an oil should have are, high chemical stability, good flash point, high thermal stability, high degree of refinement and purity, and it must be heavily fortified against the formation of rust, corrosion and oxidation. It must have a balanced viscosity that will ensure the essential protection for fine clearances and tolerances.

CARBON RESISTANCE:

Omega 613 resists the formation of carbon. Ordinary oils promote this formation because of their high degree of impurity and their susceptibility to contamination. This combination forms rapid 'hot spots' that soon develop into granite-like carbon deposits. Omega 613's exceptional lubricity not only closes seals and thereby improves pressure output, but also resists high temperature destruction.

The use of ordinary or inadequate lubricants in today's compressors is dangerous. A reaction caused when heat and carbon formation are swept into the receiver can be an explosion or a hazardous fire. Unfortunately, this fact is often ignored or misunderstood until it is too late.

VISCOSITY STABLE:

Omega 613 has built-in viscosity improvers that provide the added fine clearance protection essential to long term compressor/vacuum pump efficiency. The fluidity or lubricant texture remains stable despite temperature variations.

OXIDATION RESISTANT:

Omega 613 provides exceptional protection against oxidation. Since compressor and/or vacuum pump equipment is constantly subjected to the oxygen in the air, unless exceptional protection is provided, oxidation will occur. Oxidation causes corrosion which leads to the disintegration of costly equipment.

APPLICATIONS:

Omega 613 is extremely versatile and can be used on all types of compressor equipment including:

- Screw Compressors (dry and flooded)
- Rotary Compressors
- Gear Compressors
- Centrifugal Compressors
- Twin-Lobe Compressors
- Axial Flow Compressors
- Internally Compounded Compressors
- All types of Vacuum Pumps

The major function in all cases is based on a superiority in the suction, transfer, compression and discharge actions. Generally speaking, this type of equipment can be divided into two categories.

- (A) The Mechanical or positive displacement category.
- (B) The Centrifugal or active force acting type for moving entrapped gas.

Omega 613 provides the necessary protection and acts as a safety factor, regardless of whether the equipment is the Multistage Reciprocating Compressor type or the Expansion System type (with a cryogenic temperature of exceptionally low variance) or Vacuum Pumps.

SUPERIOR FOR VACUUM PUMPS:

Since Vacuum Pumps function similarly to Air Compressors - in reverse - Omega 613 is also strongly recommended for achieving maximum performance with all types of vacuum pumps.

CORRECT TEXTURE FOR DRIP FEEDING:

One major problem with all ordinary oils is the poor viscosity - preventing correct drip and feed speed. Omega 613 however, has built-in stability so that feed timing can be accurately calculated to meet the demands of the equipment. Too fast an input leads to carbon build-up and too slow an input means disastrous metal-to-metal contact.

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT			
		SAE 10	SAE 20	SAE 30	SAE 40
ISO Viscosity Grade	D-2422	32	68	100	150
Density, kg/L @ 15°C	D-1298	0.867	0.871	0.871	0.882
Viscosity, cSt @ 40°C	D-445	32.9	68	100	150
Viscosity, cSt @ 100°C	D-445	5.8	8.7	11.3	14.8
Viscosity Index	D-2270	105	105	101	101
Flash Point, COC, °C	D-92	215	243	261	264
Pour Point, °C	D-97	-21	-27	-27	-24
Aniline Point °C	D-611	116	119	111	113
Copper Corrosion (3 hrs, 100°C)	D-130	1b	1b	1b	1b
Foaming Characteristics -					
All Sequences, After Settling	D-892	Nil	Nil	Nil	Nil
Oxidation Characteristics -					
TOST life, hours	D-943	>5000	>5000	>5000	>4000
Rust-Preventing Characteristics	D-665	Pass	Pass	Pass	Pass
Air Release, 2 min	Typical NFT 60149	2 min.	2 min.	2 min.	2 min.
Zinc, % Mass	AA	0.027	0.027	0.027	0.027

The characteristics given above are typical of current production only and slight batch to batch variations should be expected.