



PRODUCT DATA SHEET

SYNTHETIC PAG MACHINE OILS 150-220-320-460

PRODUCT DESCRIPTION

Synthetic PAG Machine Oils are fully synthetic very high Viscosity Index polyalkylene glycol based premium industrial extreme pressure gear, bearing and compressor oil. They have exceptional EP, anti-wear, rust, corrosion, shock loading and micro-pitting protection. They have superior lubricity with a low traction coefficient for increased energy efficiency and reduced oil temperatures, providing for very good thermal and oxidative stability. They are suitable for use in very high and low temperatures in filled-for-life gear boxes, heavy duty worm gears in conveyers, and other material handling applications in the cement, metalworking, plastics, textile, gas compression, and food industries (where incidental food contact can occur). These lubricants are well suited for gear applications using ferrous and most non-ferrous base materials (except aluminium and its alloys). These products meet NSF H1 and as such can be used in Food Manufacturing plants where incidental contact with food is possible.

SYNTHETIC PAG BENEFITS

- Designed to outperform mineral and PAO synthetic oils
- Greater rust & corrosion protection
- Resistance against foam buildup
- Excellent EP anti-wear protection
- Excellent micro-pitting protection
- Outstanding gear protection under severe load applications
- Longer life with fewer oil changes
- Extended equipment life
- Reduced energy costs and longer seal life due to lower oil operating temperatures
- Wide operating temperature range
- Increased oxidative stability
- High VI, low pour point and absence of wax allow for easy start-up
- Multipurpose industrial equipment capability
- Well suited for gear applications with ferrous and most non-ferrous materials

RECOMMENDATIONS

- For industrial worm gear reduction systems
- Certain systems where maintenance is infrequent or systems are inaccessible
- Lubrication of bearings and other components in circulating and splash-lubricated systems

SPECIFICATIONS

Synthetic PAG Machine Oils meets or exceeds the following demanding performance requirements:

- David Brown S1.53.105 G
- ISO 12925-1 Type CKE
- ANSI/AGMA 9005-E02 (EP)
- Flender AG (fully approved)
- Bonfiglioli (fully approved)
- NSF H1 Food Ggrade

INCOMPATIBILITIES

Synthetic PAG Machine Oils are not recommended for the lubrication of components manufactured from aluminium or aluminium alloys.





Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362

www.hi-tecoils.com.au

5 Tarlington Place Smithfield NSW 2164

Correspondence: P.O Box 322 Castle Hill NSW 1765

Ph: 1300 796 009 | Fax: (02) 9604 1611 | Email: hitecoils@hi-tecoils.com.au

PRODUCT DATA SHEET

Compatibility with other lubricants

Synthetic PAG Machine oils are not compatible with mineral oils and most other synthetic lubricants. Additionally, depending on the specific type of PAG base fluid, they may not be compatible with other PAG type lubricants. Synthetic PAG Machine oils is not generally recommended for use in systems previously filled with mineral oils, or PAO based synthetic lubricants. It is further recommended to check compatibility when topping up or replacing existing PAG filled equipment with Syn PAG Machine. Generally the preference is to avoid mixtures by draining, thoroughly flushing out the existing lubricant (with the Hitec product chosen), cleaning out any residues where possible and refilling with the appropriate Synthetic PAG machine oil.

Hi-Tec suggests that the equipment manufacturers' recommendations for viscosity grade, performance requirements and general operating conditions should be checked prior to use.

TYPICAL PROPERTIES

Property	Typical Results			
Item code (HI6-)	2630	2631	2633	2632
ISO Viscosity Grade	150	220	320	460
Density (kg/Lt) @ 15°C	1.078	1.077	1.077	1.076
Viscosity (cSt) @ 40°C	150	220	320	460
@100°C	26.1	38.1	55.2	77.2
Viscosity Index	210	225	240	250
Flash Point, COC (°C)	265	265	265	265
Pour Point (°C)	-33	-33	-33	-33
Rust Characteristics	Pass	Pass	Pass	Pass
Copper Strip Corrosion - 24 Hours @ 100°C	1b	1b	1b	1b
FZG, Pass Stages (min)	12+	12+	12+	12+
Four Ball Wear Scar (mm)	0.4	0.4	0.4	0.4
AGMA EP Number	4	5	6	7
SAE Gear Oil Equivalent	90	90	110	140

Available in: 20 Litres and 5 Litres

"Hi-Tec Oil Traders Pty Ltd (Hi-Tec Oils) has endeavoured to ensure that all information, representations and specifications contained in this product data sheet are accurate at the time of publication. This general information should be used in conjunction with appropriate inquiries by users of the product including consultation with the vehicle or equipment manufacturers published information.

It is the responsibility of users of the product to use the product safely. Users should consult the safety data sheets for each product at www.hi-tecoils.com.au. Hi-Tec Oils takes no responsibility for injury or damage if the product is used in an inappropriate or unsafe manner.

Our product warranty and product quality statement can be viewed at www.hi-tecoils.com.au"

Effective: November 2023

RS321160/1



AUSTRALIAN FAMILY OWNED SINCE 1989

