**Signal Tech Industrial Gear Oils**

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| Product Application:  |

Signal Tech Industrial Gear Oils are a line of premium industrial grade full synthetic heavy duty gear oil designed for the lubrication of bearing and gear sets encountered in industrial settings.

Signal Tech Industrial Gear Oils are formulated using the latest polyalphaolefin base stocks and are blended with the most current additive componentry to provide excellent lubrication in all types of gear mediums. It’s exceptionally resistant to thermal, mechanical and oxidative break down, thus providing for excellent lubrication in extended run situations.

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| Features and Advantages: |

\*Ability to maintain proper viscosity at high temperatures

\*Friction reduction

\*Low traction coefficient

\*High load carrying capability

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| Package Size: |

Bulk, Drums, Pails

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| Meets or Exceeds the following Specifications |

 32 46 68 100 150 220 320 460 680 1000

AGMA 9005 E02 X X X X X X X X X X

DIN 51517-3 CLP X X X X X X X

ISO 1295-1 CKB X

ISO 12925-1 CKD X X X X X X X X X

Fives Cincinnati

SIEMENS AG Flender A36 A35 A34 A33 A32 A31

gear units, T 7300,

Table A-c, Flender

Code No.

SEW IG CLP HC 32 68 150 220 460

SEW SG CLP HC 32 68 150 220 320 460 680 1000

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| Typical Characteristics:  |

 ISO Viscosity Grade 32 46 68 100 150 220 320 460 680 1000

Viscosity, ASTM D 445

cSt @ 40°C 32 46 68 100 150 220 320 460 680 1000

cSt @ 100°C 6.3 8.5 11.6 15.3 21.1 28.5 38.5 50.7 69.0 98.8

Viscosity Index, ASTM

D2270 147 161 165 162 166 169 172 174 181 184

Pour Point,°C,ASTM

D5950 -57 -54 -51 -45 -42 -42 -42 -39 -39 -33

Flash Point,°C, ASTM

D92 236 225 225 235 220 220 225 228 225 222

Density @15°C (60°F)

(g/cc) 0.85 0.85 0.86 0.86 0.87 0.87 0.87 0.87 0.87 0.87

ASTM D4052

Appearance Orange for all

TOST, ASTM D 943

mod, hours 10,000+ for all

RPVOT, ASTM D2722,

minutes 2500 for all

Rust protection, ASTM

D665B Synthetic Sea Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass

Water

Water Separability,

ASTM

D1401, Min. to 37 ml 10 15 15 - - - - - - -

Water @ 54°

Water Separability

ASTM - - - 15 20 20 20 20 20 25

D1401 Min. to 37 ml

Water @ 82°C

Copper Corrosion,

ASTM D130, 1B for all

24 hrs @ 121°C

Stability, ml/ml

FZG gear scuffing test,

A/8.3/90, 11 12 12 12 13 13+ 13+ 13+ 13+ 13+

ISO 14635-1 (mod),

Failure Stage

FAG FE8 Bearing Wear

Test

7.5/80-80 - - - 2 2 2 2 2 2 2

((DIN 51819-3)

Roller Wear (mg)

Foam Test, 15/0, 10/0, 10/0 0/0 0/0 0/0 0/0 0/0
ASTM D892, 20/0, 30/0, 20/0 10/0 0/0 10/0 0/0 0/0
Seq I, II, IIITendency / 25/0 10/0 10/0 0/0 0/0 0/0 0/0 0/0
Stability, ml/ml

Visit us at – www.beaconlubricants.com