

# COMPONENTS

## HiTEC<sup>®</sup> 33200

Shear Stable Gear and Hydraulic Lubricant Polymer



Recommended For Use in Driveline and Industrial Lubricants

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### Application

HiTEC® 33200 shear stable gear and industrial lubricant polymer is specifically designed to tailor the viscosity characteristics of modern high performance gear oils and industrial hydraulic fluids. This product has been used to replace high viscosity synthetic base oils in heavily loaded applications such as axle fluids. HiTEC® 33200 polymer has also been used to replace bright stock or PIB in industrial gear oils and to replace PMA viscosity modifiers in high VI industrial hydraulic fluids. It is approved by OEMs and is approved in formulations meeting SAE J 2360.\*

\*Manufacturers of commercial and military driveline components rely on this industry standard to define a minimum level of performance for use in the qualification of lubricating oils that are used in their equipment. SAE J2360 provides a consistent set of requirements for such qualification processes

### Key Performance Benefits

- Superior shear stability and efficient treat rate in gear and hydraulic formulations
- Effective alternative to poly-isobutylene based thickeners, bright stock and PMA
- Lower cost alternative to high viscosity PAOs
- May be used in formulations where low temperature viscosity is important
- May be used in formulations used for heavy duty axle and transmission applications where SAE 75W-90 and SAE 50 lubricants are recommended\*
- May be used in light duty truck and SUV applications calling for SAE 75W-85 or SAE 75W-90 lubricants\*

\*Contact your Afton Customer Technical Service Representative for formulation recommendations and supporting data

### Typical Characteristics

Appearance	Clear to slightly hazy pale yellow liquid
Specific Gravity @ 15.6/15.6°C	0.853
Density, lbs/gal.	7.10
Viscosity @ 100°C, cSt	2000
Flash Point, °C (PMCC)	200 min.

### Typical Formulation, SAE 75W-90

	% wt. in blend
Gear DI Additive	8.5
HiTEC® 33200 Lubricant Polymer	14.0
HiTEC® 5714 PPD	0.5
HiTEC® 008 Seal Swell Additive	5.0
Group III Base Oil (4 cSt)	72.0

Kinematic Viscosity @ 100°C, cSt	15.56
Brookfield Viscosity @ -40°C, cP	101,800

### Typical Formulation, SAE 50

	% wt. in blend
HiTEC® 363 Transmission DI Additive	6.03
HiTEC® 008 Seal Swell Additive	10.00
HiTEC® 5724 PPD	1.00
HiTEC® 33200 Lubricant Polymer	17.50
Group III Base Oil (4 cSt)	65.47

### Typical Formulation, ISO VG 220 IGO

	% wt. in blend
HiTEC® 317 Industrial Gear Oil Additive	2.0
HiTEC® 33200 Lubricant Polymer	8.0
HiTEC® 623 Pour Point Depressant	0.2
Group II Base Oil (600 SSU)	89.80

### Handling Information

Max Handling Temp: 120°C  
Shelf Life: 36 months @ ambient temperature 200 min.