



Innovation and Experience at Work

RheoGel 431

RheoGel 431 is extreme pressure fortified synthetic grease formulated for demanding automotive and industrial applications. It possesses excellent extreme pressure and anti-wear properties and is fortified with polytetrafluoroethylene.

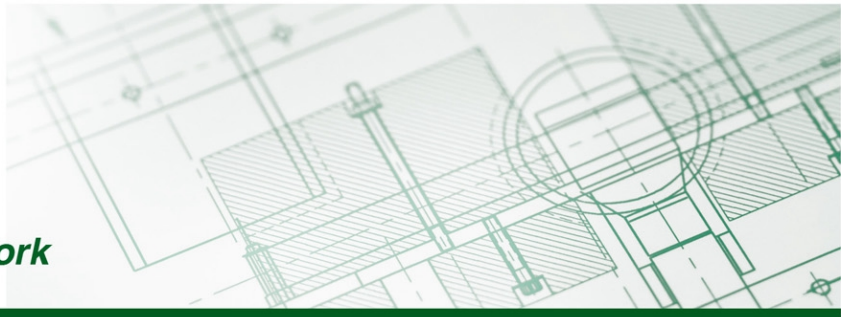
BASE OIL CHARACTERISTICS		TYPICAL VALUE *	
Type		Synthetic Hydrocarbon	
Temperature Service Range (°C)		-40 to 150	
GREASE CHARACTERISTICS		TYPICAL VALUE *	
Thickener		Lithium	
Color		Yellow	
Appearance		Smooth	
NLGI Grade		1 ½	
Penetration (ASTM D217 / DIN 51804-T1)	Unworked	270 min.	
	Worked	60X 285-315	
Dropping Point (°C) (ASTM D2265 / DIN ISO 2176)		185 min.	
Oil Separation (ASTM D6184)	24h at 100°C	5% max.	
Oil Separation (ASTM D1742)	24h at 25°C and 1.72 kPa	8.4%	
Evaporation (CTM-1)	24h at 100°C	1% max.	
Water Washout (ASTM D1264 / DIN 51807-T2)	60 min at 38°C	2.75%	
Copper Corrosion (ASTM D130 / DIN 51811)	24h at 100°C	1b	
Apparent Viscosity (Brookfield Viscometer T-C spindle, 1 rpm)	-40°C	2,660,000 cP	
Four Ball Wear (ASTM D2266)	60 min 1200 RPM 75°C 40kg _f	0.56	
Specific Gravity (CTM-2)	25°C	0.89	
Oxidation Stability (ASTM D942 / DIN 51808)	100h at 100°C	10 kPa	
	168h at 100°C	14 kPa	
	500h at 100°C	43 kPa	
Low Temperature Torque (ASTM D1478)	-40°C	Start	670 g·cm
		Run 60 min	208 g·cm

Engineered Custom Lubricants

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Low Temperature Torque (ASTM D1478)	-30°C	Start	442 g.cm
		Run 10 min	260 g.cm
		Run 60 min	182 g.cm
Low Temperature Torque (ASTM D1478)	-40°C	Start	553 g.cm
		Run 10 min	286 g.cm
		Run 60 min	163 g.cm
Four Ball Extreme Pressure (ASTM D2596 / DIN 51350-T4)	Load Wear Index		87.20
	Last Non-Seizure Load (scar)		100 kg (0.43mm)
	Last Seizure Load (scar)		500 kg (3.27mm)
	Weld Load		620 kg