

UNITED UNIGEAR S3

Product Description

Mineral Industrial Gear Oil, extreme pressure gear lubricants designed to operate over a very wide range of temperatures and conditions. These fluids possess excellent high temperature oxidation stability and superior low temperature fluidity. These products have the ability to rapidly separate from water and thus prevent the formation of anti-lubricating emulsions. The incorporation of special additives in these products protects equipment from rust, corrosion and foam. In addition, extreme pressure additives provide optimum protection against shock loading and offer high load carrying capabilities.

These products find applications in virtually all types of industrial settings. Some typical applications include gear sets and oil circulating systems found in steel mills, foundries, glass and bottle manufacturing plants, injection molding machines, paper mills, electrical wheel motors used in surface mining and quarries, shearing arms in underground coal mining, cement kilns, petroleum and chemical processing plants.

Applications / Benefits

- * Excellent low and high temperature performance
- * Prevents rust and corrosion
- * Reduces galling, scuffing, and welding of gear teeth
- * Improves fuel economy

Typical Characteristics

Test Description	Method	Unit	ISO 46	ISO 68	ISO 100	ISO 150
ISO Viscosity Grade	-	-	ISO 46	ISO 68	ISO 100	ISO 150
Density @ 15 °C	ASTM D 4052	kg/L	0.868	0.872	0.875	0.885
Flash Point	ASTM D 92	°C	210	220	242	240
Pour Point	ASTM D 97	°C	-24	-18	-15	-15
Kinematic Viscosity @ 40°C	ASTM D 445	cSt	46.4	70.4	99.7	153.8
Kinematic Viscosity @ 100°C	ASTM D 445	cSt	6.9	9.0	11.6	15.3
Viscosity Index	ASTM D 2270	-	102	102	104	100

Typical Characteristics

Test Description	Method	Unit	ISO 220	ISO 320	ISO 460	ISO 680
ISO Viscosity Grade	-	-				
Density @ 15 °C	ASTM D 4052	kg/L	0.893	0.901	0.904	0.907
Flash Point	ASTM D 92	°C	244	248	250	255
Pour Point	ASTM D 97	°C	-12	-9	-6	-9
Kinematic Viscosity @ 40°C	ASTM D 445	cSt	224.6	329.3	464.1	683.4
Kinematic Viscosity @ 100°C	ASTM D 445	cSt	19.3	24.9	32.0	40.5
Viscosity Index	ASTM D 2270	-	97	97	100	103

Typical Characteristics

Test Description	Method	Unit	ISO 1000
ISO Viscosity Grade	-	-	
Density @ 15 °C	ASTM D 4052	kg/L	0.899
Flash Point	ASTM D 92	°C	250
Pour Point	ASTM D 97	°C	-9
Kinematic Viscosity @ 40°C	ASTM D 445	cSt	1029
Kinematic Viscosity @ 100°C	ASTM D 445	cSt	52.6
Viscosity Index	ASTM D 2270	-	98

Suitable For The Following Uses

* AGMA	9005-F16 AS
* DAVID BROWN	S1.53.101 TYPE M, A & E
* DIN	51517 PART 3
* ISO	12925-1 CKC/CKD
* U.S. STEEL	224

Reference No.
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