



SHELL MORLINA[®] OILS SD

Premium quality general purpose
R and O inhibited circulating oils

Product Description

Shell Morlina[®] Oils SD are premium quality lubricating oils designed to provide excellent lubrication in many industrial applications. They provide satisfactory viscosity/temperature characteristics, low foaming tendencies and excellent water separation properties. In addition, they contain proven additives to protect equipment against corrosion and the lubricant against oxidation, which results in long service life. **Shell Morlina[®] Oils SD** are available in five ISO viscosity grades ranging from 100 to 460 cSt at 40 °C. Grade nomenclature conforms to the ASTM/ISO viscosity system. **Shell Morlina[®] Oils SD** are recognized by Morgan as meeting their Morgoil[®] Advanced Lubricant (Super Demulsibility) Specification Revision 2.3, for use in bearing circulating systems in steel mills – especially those subjected to heavy water contamination.

Applications

- enclosed bath, splash, and circulating systems
- non-anti-wear hydraulic and circulating oil systems
- general purpose plant lubrication
- plain and roller bearings
- slides
- crushers
- cone drives
- machine tools
- low to normally loaded gear reducers (non-EP) and helical gear reducers
- ANSI/AGMA specified gear lubricants
- Advanced Morgoil[®] Bearing Lubrication Systems

Features/Benefits

- rust and oxidation inhibited
- resistant to the formation of harmful sludge and deposits
- non-corrosive to metals
- rapid separation of entrained air and water
- excellent water separation characteristics
- good de-aeration properties

Meets the Requirements of:

- Morgoil[®] Advanced Lubricant (Super Demulsibility) Specification (Revision 2.3 dated March 26, 2004)
- ANSI/AGMA 9005 – E02

Typical Properties of Shell Morlina® Oils SD

	Test Method	ISO Viscosity Grade				
		100	150	220	320	460
Product Code		65631	65632	65633	65634	65635
AGMA Grades		100	150	220	320	460
Gravity, °API	D 1298	30.5	28.0	26.7	26.1	25.0
Viscosity:						
@ 40°C, cSt	D 445	100	150	220	320	460
@ 100°C, cSt	D 445	11.1	14.5	18.7	23.9	30.3
@ 100°F, SUS	Calculated	522	789	1164	1705	2467
@ 210°F, SUS	Calculated	64.2	77.8	95.7	113	149
Viscosity Index	D 2270	95	95	95	95	95
Color	D 1500	2.0	3.0	4.0	4.0	5.0
Pour Point, °F	D 5950	10	15	15	20	20
Flash Point, COC, °F	D 92	450	465	480	495	550
Acid Number, mg KOH/g	D 974	0.05	0.05	0.05	0.05	0.05
Cu Corrosion, 3 hrs @ 212°F	D 130	1b	1b	1b	1b	1b
Rust Test, SSW	D 665B	Pass	Pass	Pass	Pass	Pass
RBOT, minutes	D 2272	800+	600+	500+	400+	350+
Emulsion Test, minutes	D 1401	10	10	10	20	30
Foam Test, Sequence II						
ml foam at 0/10 minutes	D 892	30/0	20/0	0/0	10/0	0/0
Turbine Oil Stability Test, hrs	D 943	6000+	2250+	1500+	1200+	1100+

Handling & Safety Information

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.shell-lubricants.com/msds/>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.