

MATRIX[®] LC CALCIUM SULFONATE GREASE

Matrix[®] LC is a heavy-duty addition to the Whitmore line of extreme pressure greases. This grease answers demands for a calcium sulfonate complex grease that is pumpable in cold weather and is suitable for higher speed bearings.

When formulating Matrix[®] LC, Whitmore chemists started with Matrix[®] EP, which has been our flagship grease for several years. Several changes were made, including the use of a new polymer. All of the most notable benefits of Matrix[®] EP were retained in Matrix[®] LC including long life and outstanding wear protection. Needless to say, the rust protection afforded by the calcium sulfonate thickener remains.

For high water wash and underwater applications choose Matrix[®] EP.

Matrix[®] LC can be made available in two additional grades not listed below: Matrix[®] 5M LC 2 (with 5% MoS₂) and Matrix[®] LC 1.5.

BENEFITS:

- LONG LIFE - reduced re-lubrication frequency.
- WIDE SPEED RANGE - recommended for use in electric motor bearings as well as slower-moving bearings and bushings.
- WEAR PROTECTION – suitable for use in very heavily loaded bearings.

APPLICATIONS:

Besides electric motor bearings, Matrix[®] LC is recommended for use in applications where re-lubrication is infrequent.

This grease is suitable for highly loaded applications such as steel mill roll stands and slew ring bearings on hydraulic shovels.

Matrix[®] LC is recommended for single-point and centralized lubrication systems such as Lincoln, Graco, Farval, Vogel, etc.

ASTM #	Grade	TYPICAL CHARACTERISTICS			
		Winter	0	1	2
D-217	Penetration Range	390-410	355-385	310-340	265-295
D-2265	Dropping Point, °F (°C)	540 (282)	540 (282)	540 (282)	>540 (282)
D-445	Kinematic Viscosity (Base Oil)				
	cSt @ 40°C	105.15	53	119.61	119.61
	cSt @ 100°C	8.02	7.44	10.07	10.07
D-445	Kinematic Vis (with Polymer)				
	cSt @ 40°C	--	75	480	480
	cSt @ 100°C	--	9.37	33.0	33.0
D-2596	Four Ball EP, Weld Point, kg	620	620	800	800
D-2266	Four Ball Wear, Scar Width, mm	0.47	0.48	0.48	0.48
D-4049	Water Spray Off, % Loss	Not Reported	Not Reported	Not Reported	<20
D-1264	Water Washout, % Loss	Not Reported	Not Reported	<5	<3
FTM 321.2	Screen Bleed, % Loss @ 30 hrs	Not Reported	Not Reported	Not Reported	<1
D-1743	Rust Test	Pass	Pass	Pass	Pass
D-4048	Copper Strip Corrosion 212°F (100°C) @ 3 hrs	1B	1B	1B	1B
	Thickener Type	Calcium Sulfonate Complex	Calcium Sulfonate Complex	Calcium Sulfonate Complex	Calcium Sulfonate Complex
OEM Standard	Low Temperature Pumpability Lincoln Ventmeter @ 400 psi, °F (°C)	-30 (-34)	-5(-20)	10 (-12)	24 (-4)
	Operating Temperature Range, °F (°C)	-30 (-34) to 32 (0)	-15(-25) to 45(7)	0 (-18) to 400 (204)	10 (-12) to 400 (204)

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

PACKAGING

Drums	Keqs	Pails	Cartridges 50 Per Case
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For warranty information, scan the QR code.
You can also email us at sales@whitmores.com
Or write to the Sales Department at the address below.

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