

NOVAGARD® EXTREME PRESSURE MULTIPURPOSE GREASE

Whitmore's Novagard® extreme pressure aluminum complex base grease can be used in a variety of grease-lubricated mining applications. Because of its excellent water resistance, wide operating temperature range, extreme pressure and antiwear characteristics, users have found that Novagard® can replace several previously stocked greases. This aids in reducing inventories and lessening the chance of misapplication.

Novagard® contains MoS₂ and graphite to provide solid film lubrication which plates out on lubricated components to virtually eliminate metal-to-metal contact, even under severe shock loading conditions. Since it is available in four grades, including one formulated to be used at -45°F (-43°C), it is easily applied, both manually or by automatic systems, in virtually all ambient temperatures. With a dropping point in excess of 425°F (218°C), Novagard® also provides protection in many elevated temperature applications. This wide operating range allows operators to use a single grade of Novagard® under varying weather conditions.

Many equipment applications experience stop and go conditions or reversing direction. This tends to shear down conventional greases, necessitating frequent relubrication, and may shorten bearing life. Novagard® has excellent mechanical stability which allows it to retain its original structure and consistency, even when worked very hard for extended periods under varying loads and speeds.

BENEFITS:

- WATER-RESISTANT – repels water.
- EXTREME PRESSURE - protects against shock loads, welding and scoring. This results in fewer replacement parts and reduced downtime.
- OPERATING RANGE - is easily pumped and protects in temperatures ranging up to 330°F (165°C) which reduces the need for seasonal grade changes.
- SEALS OUT DIRT AND CONTAMINANTS - the durable aluminum complex base forms a protective barrier.
- VERSATILE FORMULATION - ideal for a wide range of operating environments and applications. Helps reduce inventories and prevent misapplication.

APPLICATIONS:

Whitmore's Novagard® extreme pressure grease is designed to lubricate antifriction bearings and bushings. It is also recommended for vehicle chassis points and U-joints as well as pivot points and bucket pins on earthmoving equipment. Novagard® will provide extended service intervals and reduced wear to draglines, shovels, excavators, trucks, conveyors and other rolling stock as well as in-plant applications.

ASTM #		TYPICAL CHARACTERISTICS			
	Grade	EP 0	Winter EP 1	EP 1	EP 2
D-217	Cone Penetration (Worked)	355-385	325-350	310-340	265-295
D-2265	Dropping Point, °F (°C)	450 (232)	480 (249)	480 (249)	480 (249)
D-445	Kinematic Viscosity				
	cSt @ 40°C	30	91	177	177
	cSt @ 100°C	4.4	8.5	14.5	14.5
Gardner Method	Density, lb/gal @ 60°F (°C)	7.78	7.49	7.88	7.72
	Specific Gravity, g/cc @ 60°F (°C)	0.934	0.899	0.946	0.927
D-2509	Timken OK Load, lb	60	60	60	60
D-2596	Four Ball EP				
	Weld Point, kg	500	500	620	620
	Load Wear Index	75	75	85	85
D-2266	Four Ball Wear, Scar Width, mm	0.55	0.55	0.55	0.55
D-1743	Rust Test	Pass	Pass	Pass	Pass
D-4048 (Modified)	Copper Strip Corrosion for Greases	1A	1A	1A	1A
	212°F (100°C) @ 3 hrs				
	Thickener Type	Aluminum Complex	Aluminum Complex	Aluminum Complex	Aluminum Complex
	Usable Temperature Range, °F	-45 to 250	-25 to 280	0 to 330	20 to 330
	°C	-43 to 120	-31 to 137	-18 to 165	-7 to 165

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

PACKAGING

Shuttle Tanks	Drums	Kegs	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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