Special Purpose No Melt Grease

Bardahl Special Purpose No Melt Grease is designed for lubrication of machine parts exposed to continuous temperatures in excess of 200°C. It has also proved to be superior grease for centralized systems due to its low pressure bleed and good water wash out qualities. Conventional greases soften in extreme heat, such as that caused by high-speed equipment, high temperature environments, or prolonged service at above average temperatures. These conditions need a special high-heat resistant grease.

The problem
Chains, conveyors, and sleeve bearings in ovens and kilns are subjected to constant operating temperatures in excess of 200°C. At such sustained high temperatures ordinary soap based greases run off metal surfaces, allowing increased wear and friction. Separation of oil and thickener under pressure will give increased wear to lubricated parts and can cause expensive machinery repairs.

The action
Bardahl Special Purpose No Melt Grease uses a non-soap clay thickener which forms an extremely stable grease that has no measurable dropping point. At temperatures where other greases run off metal surfaces, this product withstands high temperature environments of high speed equipment or prolonged service at above average temperatures. This grease has a typical working temperature-range of -18°C to over 250°C. It is immune to temperature changes at all ranges, highly adhesive to metal, water resistant and protects against wear and friction.

As a general rule grease with different thickening agents should not be mixed. **Bardahl Special Purpose No Melt Grease** should not be mixed with non-Bentone greases. Such mixing will lead to an immediate separation of oil and thickener. When first applying Special Purpose in centralized systems, make sure the equipment has been flushed of previous grease.

- Heat stability of **Bardahl Special Purpose No Melt Grease** is far superior to any soap-base grease, yet pumpability at low temperature remains. The working stability is excellent.
- **Dropping point** is well over that of oils used in grease production.
- **Bleeding tendency** is considerably less than for soap grease of equivalent consistency; its oil won't bleed too fast under high heat.
- **Corrosive** effect on brass and copper is negligible; any occurring will be due to contaminants.

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Product information

- **Adhesion** to metal is near 100% from 25° - 100°C as measured by the rotating disc method.
- **Wear characteristics** are comparable to the best soap-base products.
- **Water resistance** is excellent; it will absorb water but will not lose consistency nor breakdown by hydrolysis.

Analytical-data

NLGI Classification	#2
Worked Penetration at 25°C	265-295
Unworked Penetration	278
Oil Flash Point	250°C (480F)
Oil Pour Point	-18°C (0F)
Water Washout at 80°C (175F)	none
Oil Viscosity Index	43
Oil Viscosity at 40°C (100F)	470cSt
Oil Viscosity at 100°C (210F)	27cSt
Rust Test ASTM D-1743	#3 fail
Copper strip ASTM D-130 (3 hours at 210F)	1a
Oxidation stability (PSI loss in 100 hours)	7
Dropping point	500F+ 260°C+
Texture Colour	smooth-brown

NOTE:
Bardahl Special Purpose No Melt Grease contains special ingredients and should not be mixed with other greases.

Article number 74204
Contents 400 gr

Article number 74255
Contents 5 kg

Article number 74282
Contents 20 kg

Article number 74285
Contents 50 kg

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