HHG-142

HYDRAULIC HAMMER GREASE WITH 14% COPPER AND GRAPHITE

The **HHG-142** is a sulfonate based grease with **14% COPPER** and **GRAPHITE** specifically formulated for the lubrication of hydraulic hammers using the latest technology. The combination of the sulfonate's outstanding natural lubricating properties with **14% COPPER** and **GRAPHITE** provides far superior performance when compared to other types of hydraulic hammer greases such as lithium complex, aluminium complex and polyureas as well as other sulfonate based greases.

The **HHG-142** grease stands out with the following properties :

- Prevents seizing of the hydraulic hammer tool
- Optimum extreme high temperature hydraulic hammer tool protection provided by the copper and graphite solid lubricants ; up to 1100°C (2010°F)
- Outstanding extreme pressure (E.P.) and anti-wear performance
- Superior mechanical stability
- Excellent thermal stability
- Excellent water resistance
- Very good adherence
- Superior rust and corrosion resistance
- Excellent oxidation resistance

The **HHG-142** advanced grease technology allows for :

- Minimum friction and wear
- Extended lubrication intervals
- Lower overall grease consumption

ENVIRONMENTAL INFORMATION :

The **HHG-142** sulfonate based greases contain no heavy metals and no harmful nor environmentally undesirable additives.

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TECHNICAL DATA

GENERAL PHYSICAL PROPERTIES :

▪ N.L.G.I. grade :	2
▪ Colour :	Copper / grey
▪ Thickener :	Sulfonate
▪ Dropping point, ASTM D2265, °C (°F) :	>300 (>572)
▪ Copper and graphite, %/weight	14
▪ Base oil ;	
- Type :	mineral
- Viscosity @ 40°C, cSt :	220
- Viscosity @ 100°C, cSt :	18,75
- Viscosity index :	95

MECHANICAL STABILITY :

▪ Consistency, ASTM D217, worked penetration ;	
- 60 strokes, mm/10 :	278
- 10,000 strokes, mm/10 :	287

OXIDATION RESISTANCE :

▪ Oxidation stability, ASTM D942 ;	
- Pressure drop, psi / 100 hours :	1
- Pressure drop, psi / 500 hours :	2
- Pressure drop, psi / 1000 hours :	9

RUST AND CORROSION RESISTANCE :

▪ Rust test rating, ASTM D1743 :	pass

SEPARATION CHARACTERISTICS :

▪ Oil separation @ 25°C (77°F), ASTM D1742, % weight :	1,5

WATER RESISTANCE :

▪ Water washout, ASTM D1264 ;	
- % loss @ 79°C (174°F) :	2,5

LOW TEMPERATURE PROPERTIES :

▪ Low temperature torque, ASTM D4693 @ –40°C, N.m. :	N.A.

EXTREME-PRESSURE AND ANTI-WEAR PROPERTIES :

▪ 4 ball wear test, ASTM D2266 ;	
- Scar (mm), 40 kg, 1200 RPM @ 75°C, 1 hour :	0.60
▪ 4 ball EP test, ASTM D2596 ;	
- Load / wear :	N.A.
- Weld point, kg :	800

OPERATING TEMPERATURE RANGE :

▪ Minimum, °C (°F) :	-20 (-4)
▪ Maximum, °C (°F) :	205-230 (400-450)
▪ Dispensing temperature – grease gun °C (°F) :	-10 (14)
▪ Dispensing temperature – automatic greasing system, °C (°F) :	N.A.

Sizes	Product numbers
490 g	133490
2 kg	133002
17 kg	133017
55 kg	133055
180 kg	142180

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