ROTHEN LM 200 SPECIAL

Complex Lithium Based Grease for High Temperatures with Graphite

DESCRIPTION

ROTHEN LM 200 SPECIAL is based on complex lithium soap and highly refined mineral oil, heavily fortified with antioxidants, preservatives and EP (extreme pressure) agents. Due to its composition, this grease qualifies as a high-performance product, designed to respond adequately to severe operating conditions. The complex soap guarantees a high dropping point and, consequently, a good structural stability at high temperatures, while also facilitating a possible cold starting.

ROTHEN LM 200 SPECIAL provides good protection against wear and resists well against water, even in case of significant leaking. It also presents good resistance to oxidation. It has a strong mechanical resistance at high loads and vibration. Microfine Graphite provides a significant decrease in the coefficient of friction and wear, while ensuring emergency lubrication in the presence of peaks of very high temperatures.

The additional additives with a polymer additive gives **ROTHEN LM 200 SPECIAL** also marked adhesion properties to the organs to be lubricated.

APPLICATIONS

ROTHEN LM 200 SPECIAL can be considered an ideal grease for general industrial purposes. Thanks to its adhesive characteristics to the lubricated moving parts, particularly when operating at medium to high temperatures, **ROTHEN LM 200 SPECIAL** offers remarkable technical and economic advantages, allowing to dramatically space out lubrication and maintenance intervals, thus avoiding frequent production downtime . Typical applications for **ROTHEN LM 200 SPECIAL** are represented, for example, by joints and bearings of fans or furnaces' trolleys. This product is also indicated for the lubrication of joints, pins and all other applications needing a hi-performing product in all operating conditions.

TYPICAL PHYSICAL-CHEMICAL CHARACTERISTICS (*)

Color: Black
Aspect : Fibrous, homogeneous, gluey
Recommended temperature range: MIN. = -25°C
MAX. = +160°C (+180°C SHORT)

FEATURE	UNIT OF MEASURE	METHOD	OUTCOME	OUTCOME
NLGI Classification	---	ASTM D217	2	1
Dripping point	°C	ASTM D566	280	270
Manipulated Penetration 60 c. at 25°C	1/10mm	ASTM D217	280	325
Manipulated Penetration a 10.000 c. a 25°C	1/10mm	ASTM D217	Δ +/− 25	Δ +/− 25
Anti Corrosion Test	---	ASTM D1743	Pass	Pass
Oxidation Stability (loss of pressure)	PSI	ASTM D942	After100 h. < 3	After 100 h. < 3
4 Spheres Test (EP) Welding load	N (Kg)	ASTM D2596	>2500	>2500
WATER WASHOUT Test (1 h.-80°C)	mm	ASTM D2266	< 0.6	< 0.6
Base oil's Viscosity at 40°C (ISO)	%	ASTM D1264	<5	<5
NLGI Classification	cSt	ASTM D445	460	460

(*): The values are based on typical production, and may consequently vary.