ROTHEN EXTRA

Antifriction and Antiwear Superlubricant Additive

DESCRIPTION

ROTHEN EXTRA is designed to enhance the LCC system's functions (Load Carrying Capacity) present at high concentration. The anti-wear, greasing, EP and friction modifiers compounds making up such a system (suitably measured in a way that brings out the specific characteristics) help determine a very increased anti-friction and wear performance.
Particularly significant is the friction-meter performance, which has unequivocally shown **ROTHEN EXTRA**'s remarkable adhesive ability to metal surfaces, protecting them from wear.
The formulation does not contain chlorine, is free of dust and inorganic materials dispersion and is completely soluble in common base lubricants.

APPLICATIONS

ROTHEN EXTRA can be used as a superlubricant additive for a wide range of oils.
It is especially recommended in the following cases:

drop in performance caused by excessive and / or premature wear;
excessive noise of lubricated parts;
extension of the lubricant's service life.

EMPLOYMENT

The product should be added directly to the lubricant in use at a 10-15% percentage. **ROTHEN EXTRA** is compatible with both mineral-based and synthetic (polyglycol excluded) lubricants.

PERFORMANCE

Ability to sustain the load

ROTHEN EXTRA, thanks to the LCC system (Load Carrying Capacity), gives the lubricant to which it is added the ability to form a protective layer, preventing contact between the roughness of the metal surfaces affected by relative motion, even in the strictest lubrication regimes (high temperatures and high loads).

Strong EP characteristics

ROTHEN EXTRA increases the oil's ability to interact chemically with the metal surfaces, giving rise to the formation of inorganic compounds with a low coefficient of friction, providing smaller heat dissipation. This feature results in lower oil's temperature increase, resulting in a slowdown of the oxidative processes' degradation of the lubricant itself. These specific properties lead to the oil's longer life, significant energy saving and lesser formation of acidic species, with a sub sequential inhibition of the corrosive processes.

High polarity

The use of **ROTHEN EXTRA** provides a strong affinity to metal surfaces, on which the protective layer formed by the product remains firmly anchored, both in the presence of very high loads and in those cases when the lubricant's effect may fail, avoiding oil wear and preventing harmful seizures.

TYPICAL PHYSICAL-CHEMICAL CHARACTERISTICS: (*)

FEATURE	MEASURE UNIT	METHOD	OUTCOME
Density at 15°C	Kg/l	ASTM D 1298	0.935
Flammability point	°C	ASTM D 93	>200
Viscosity at 40°C at 100°C	mm²/s	ASTM D 445	 100 11.2

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