

ROTHEN GWR

Anti-friction additive for industrial oils and EP

DESCRIPTION

ROTHEN GWR is an additive constituted by a mixture of compounds with remarkable EP properties (extreme pressure), and suitable for the treatment of a wide range of lubricants for industrial application.

ROTHEN GWR can be added to oils for general lubrication, for gearboxes and gears, and to lubricants for the processing of metal, both in the cutting and the plastic deformation phases.

We recommend the use of **ROTHEN GWR** in all cases when the lubricant in use does not reach the required performance because of poor additivation, as well as a progressive impoverishment of its original additivation.

The presence of the LCC (Load Carrying Capacity) system provides the ability to withstand the load even under extreme lubrication conditions (such as high temperatures and heavy loads).

ROTHEN GWR has been specifically designed to be compatible with all types of lubricants on the market today, both mineral based or obtained by chemical synthesis. The formula is free from dust and inorganic compounds in dispersion, and is completely soluble in the most common base lubricants.

APPLICATIONS:

ROTHEN GWR can be used as an EP additive in a wide range of oils for industrial applications. It is particularly recommended in the following cases:

- Lowering of performance caused by excessive and / or premature wear;
- Excessive noise of lubricated parts;
- Extension of the lubricant life cycle;
- High level of lubricant's smokiness when working with metals;
- Unsatisfactory tools' performance.

USE:

The product should be added directly to the lubricant in use at a 15-20% percentage.

ROTHEN GWR is compatible with both mineral-based and synthetic lubricants (polyglycol excluded).

PERFORMANCE

Ability to sustain the loads

ROTHEN GWR, thanks to the LCC (Load Carrying Capacity), gives the treated lubricant to which is added the improved ability to form a protective layer preventing contact between the roughnesses of metal surfaces affected by relative motion, even in the strictest regimes of lubrication.

Remarkable EP characteristics

ROTHEN GWR increases the oil's ability to chemically interact with metal surfaces, facilitating the formation of inorganic compounds with a low friction coefficient, and providing lower heat dissipation. This results in a smaller increase in the oil temperature, and a consequent slowdown of the lubricant's own processes of oxidative degradation. These specific properties lead to a longer oil life, significant energy savings and lesser formation of acidic species, with a subsequent inhibition of the corrosive processes.

TYPICAL PHYSICAL-CHEMICAL CHARACTERISTICS: (*)

CHARACTERISTIC	UNIT OF MEASURE	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	mm ² /s	ASTM D 445	100 11.2

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