

Technical Data Sheet

Texol Coolsyn™ PREMIUM

Premium performance water-soluble cooling lubricant

Product Description

- Based on synthetic anionic and non-ionic lubrication components as well as very effective corrosion inhibitors and anti-wear additives
- Long-term stable
- With a very high content of polar additives
- With low foaming tendency
- With EP additives
- With TFAS (Texol Fluid Additive System)

As the product does not contain any secondary amines, there is no danger of Nitrosamine formation according to our present knowledge.

Furthermore, **Texol Coolsyn™ PREMIUM** is inhibited against the formation of nitrosamines, which means that even if there are any secondary amines and nitrites, no stable nitrosamines can be formed. Therefore, in case of exceeding the limit value for nitrite according to TRGS 611, it is not necessary to make a partial or complete change of the emulsion.

Applications and Uses

Texol Coolsyn™ PREMIUM is suitable for most difficult metal cutting operations especially aluminium, involving steel, cast iron and non-ferrous metals. It can be used up to most difficult operations. Due to the highly effective additives, Texol Coolsyn™ PREMIUM covers a wide range of applications. The use of these active EP,AW,CI and TFAS additives provides a longer tool life and enables working with high cutting speeds.

Texol Coolsyn™ PREMIUM high process security can be guaranteed even for very difficult working operations. This advantage provides a high flexibility for different cutting processes, mainly in central systems and working centres.

Texol Coolsyn™ PREMIUM is used successfully at the following metal cutting operations;

Reaming - - Thread cutting - - Rubbing - - Deep hole drilling - - Slicing - - Milling / Hobbing - - Turning - - Drilling - - Sawing - - Tool grinding

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The adaptation of lubrication and EP,AW,CI,TFAS properties with a high rinsing effect allows the use of **Texol Coolsyn™ PREMIUM** for nearly every material, e.g.;

- Aluminium materials
- Normal cutting steels
- Difficult cutting steels
- Most difficult cutting steels / special materials
- Grey cast iron, spheroidal graphite iron and malleable cast iron

The necessary working concentration depends on the difficulty of the metal cutting operation and the material.

Working concentration

Depending on the working material 2 – 6 %

Texol Coolsyn™ PREMIUM is dermatologically tested. TEWL (transepidermal loss of water) and Epicutan test confirm good skin compatibility

Typical Properties

Property (Unit)	PREMIUM	Method
Density at +15 °C	1030	DIN 51757
Ph value (3 %)	9.6	DIN 51369
Cast iron chips test (%3)	0	DIN 51360/T2
Ester content %	45	
Correction factor for determination of the concentration: Refractometer	1.20	

Technical Expertise

Texol experts on **Texol Coolsyn™ PREMIUM** lubricant is regionally located to respond to your needs. Whether you have a question about products, applications or regulations, Texol offers comprehensive customer and technical service.