

Synthetic Soluble Cutting Fluid

APPLICATION

Castrol Syntilo GX is a high performance, long life, fully synthetic metalworking fluid. It has been developed to maximise production efficiency by allowing higher machining speeds and feed rates, particularly with cast iron, s.g. iron, carbon and low to medium alloy steels.

FEATURES

- ◆ Syntilo GX contains a unique blend of synthetic performance additives, polar lubricating agents, synthetic corrosion preventives and special soaps to give an oil-free synthetic product with superior lubricating and cooling properties. These features allow higher machining speeds and feeds to be achieved without detriment to surface finish or increasing cutting tool and coolant consumption
- ◆ Syntilo GX has an extremely long sump life due to its outstanding resistance to bacterial and fungal infections. In consequence fluid maintenance is reduced as no biocide addition is required. Additionally there is greater machine availability and disposal costs are reduced as a result of the smaller volume of effluent generated
- ◆ Syntilo GX has excellent wetting properties which give the dual benefits of improved cooling performance and low coolant losses through drag-out. Weekly top-up rates for Syntilo GX are typically less than half those for conventional soluble oils. In addition to reducing coolant consumption this also reduces the need for washing components after machining and improves operators working conditions
- ◆ Syntilo GX is resistant to foaming - even in soft water - and totally rejects mineral oil, allowing effective skimming of any separated tramp oil
- ◆ Syntilo GX is operator friendly, having a pleasant odour, is non-irritant and has no defatting action on the skin. It is also free from chlorine, phenols and nitrites



TYPICAL PHYSICAL CHARACTERISTICS

Concentrate

Appearance	Clear pale yellow liquid
Odour	mild amine
Relative Density @ 20°C	1.06

Solution

Appearance	Clear liquid
pH @ 5% concentration	9.1
IP 287 Corrosion Test (cast iron chips/filter paper) in 200 ppm water	Clear @ 3%
IP 125 (steel Drillings/cast iron plate) in 200ppm water	0/0 - 0 @ 70:1
Solution Stability (5% in waters up to 700 ppm)	Clear, stable
IP 312 Foam Test (5% in 200 ppm water)	Total collapse in 15 secs
Refractometer Correction Factor	1.7
Recommended Concentration	Between 5 & 10% dependent upon application

ADDITIONAL INFORMATION

For maximum service life, coolant systems should be cleaned and sterilised by treatment with Castrol Flexiclean before changing to Syntilo GX. Treatment entails adding approximately 1% Castrol Flexiclean to the previous charge of coolant, the day before it is due to be discarded. For full details see the Product Datasheet for Castrol Flexiclean.

Health and Safety information sheets are available for all Castrol products from the address below.
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