

VALONA ST 9013 HC



Metalworking

TOTAL

Chlorine-free neat cutting oil designed for very hard machining operations on ferrous metals.

APPLICATIONS

- **VALONA ST 9013 HC** is **chlorine-free metalworking oil** with specific additives specially suitable for all difficult machining operations on ferrous metals.
- **VALONA ST 9013 HC** is more particularly suitable for machining operations on carbon steels, high alloy steels and stainless steels.
- **VALONA ST 9013 HC** must only be used on ferrous metals.
Currently lubricated operations:
 - stainless steel free cutting,
 - drilling, boring, reaming of alloy and stainless steels,
 - gear cutting and shaving,
 - high-speed broaching.

ADVANTAGES

- **Excellent anti-wear and outstanding extreme pressure performance:**
 - The nature of its compounding gives it excellent machining performances that result in an excellent surface finish and ensures dimensions and tolerances to be respected.
 - Extends the tool life time.
 - Prevents the formation of built-up edges.

This product is formulated from a hydrocracked base stock and provide many advantages:

- **Very little odour** due to its low aromatic compound content.
- **Improvement to operators health** due to almost no carcinogenic compounds such as polycyclic aromatic hydrocarbons present in the oil.
- **Reduced oil mists and less product consumption** through evaporation, due to low levels of volatility.
- **Supreme product life** is ensured through increased oxidation stability.
- **Improved filtration ratio**, due to efficient degassing of the product.
- **Excellent compatibility with elastomers and paints.**

TYPICAL CHARACTERISTICS	METHODS	UNITS	VALONA ST 9013 HC
Appearance	-	-	Clear liquid
Colour	ISO 2049	0 to 8	5 (dark brown)
Odour	-	-	Slight
Density	ISO 3675	kg/m ³	847
Kinematic viscosity at 40°C	ISO 3104	mm ² /s	13
Copper corrosion	ISO 2160	-	4b

The characteristic values shown in this table are typical values that are given as a guide.

TOTAL LUBRIFIANTS
INDUSTRIE
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VALONA ST 9013 HC
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This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.
A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from www.quick-fds.com.