



Product Data

Techniclean 80 XBC

Aqueous mild alkaline process cleaner

Description

Castrol Techniclean® 80 XBC is an aqueous, low alkalinity, industrial process cleaner containing surfactants and corrosion inhibitors. The product is formulated without inorganic salts and formaldehyde releasing agents.

Application

Techniclean 80 XBC is designed for inter-operational and final process cleaning of ferrous and aluminum components, suitable for use in a wide range of modern spray, high pressure spray and intensive flood wash equipment. This cleaner effectively removes residues from parts and components after machining with soluble oils, light duty neat cutting or forming oils, thin corrosion preventive films, lubrication oils, swarf and general dirt. Though the product is particularly developed for in-process cleaning, Techniclean 80 XBC is also well suited for maintenance machine tool cleaning.

Techniclean 80 XBC is designed to be compatible with the Castrol® Alusol® XBB and Hysol® XBB coolant ranges. When applied in cleaning processes after machining with XBB metalworking fluid the used cleaner solution can be recycled back into the XBB metalworking fluid emulsion system.

Conditions of Use

Concentration Range (low pressure spray, flood wash):	1 - 5%
Concentration Range (high Pressure spray):	1 - 2%
Temperature Range:	ambient - 160 ° F (70 °C)
Spray Pressure:	up to 17,400 PSI (1200 BAR)
Water Hardness Range:	0 - 350 ppm CaCO ₃ (0 - 20 °dH)

Optimum conditions of use are depending on the detailed application requirements and the amount and nature of the soil being removed.

Advantages

- Leaves a thin temporary corrosion preventive film on the metal surface after drying – minimizes scrap rate which improves productivity
- Effectively minimizes excessive foam – reduces costly risk of dangerous cavitations/damage of high-pressure pumps
- Excellent demulsifying properties provide easy skimming and long bath life – can help to reduce maintenance and disposal cost
- Suitable for low temperature cleaning operations - can support sustainability agenda, i.e. helping to reduce energy cost and to improve CO₂ footprint
- Versatile; multi-metal compatibility and suitable in hard and soft water – enables possible product consolidation
- Possibility of recycling the used cleaning solution into Castrol Alusol and Hysol XBB metalworking fluid emulsion - can help to reduce operational cost thru lowering waste volume and reducing fresh water consumption

Typical Characteristics

Description	Test Method	Units	Value
Concentrate			
Appearance	Visual	-	Clear, pale to light yellow liquid
Density @ 20 °C	ASTM D4052	g/ml	1.03
Dilution			
Appearance (5% in DI-water)	Visual	-	Translucent to hazy liquid
pH (5% in DI water)	ASTM E70/97	-	9.9
Refractometer Factor - BRIX Multiplier		-	3.0

Subject to usual manufacturing tolerances.

Additional Information

In case of recycling the used cleaner solution into the metalworking fluid system the concentration of the emulsion is maintained by adding Alusol XBB or Hysol XBB concentrate at the recommended top up rate. Used cleaner solution is used as make up water.

For further advice please contact your local Castrol representative.

Storage

To avoid product deterioration always keep the container/drum tightly sealed. Store the product in a cool, dry place away from direct sunlight. Prevent exposure to frost and avoid water ingress. For optimum product stability, it is preferable to store the product indoors between 5°C and 45 °C / 41°F and 113°F.

For more details, please refer the product safety data sheet.

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