



TECHNICAL DATA SHEET

TOPS CP-52

CHLORINATED PARAFFIN 52

Description

TOPS CP-52 is a clear and pale-yellow liquid. Chlorinated paraffin is a complex mixture of polychlorinated alkanes obtained by chlorinating paraffin obtained from petroleum distillation. It is used as a lubricant additive because the chlorine reacts with metal forming a metal chloride film which 'smooths the surface', thus reducing friction. It is a non-flammable, non-corrosive and low volatility liquid at room temperature.

Applications

TOPS CP-52 is typically used as an extreme pressure additive in machining, drawing and stamping fluids. It is used as a plasticizer in PVC. Its addition to paints, coatings and sealants improves their water and chemical resistance.

Typical starting point formulation guidelines (%weight):

| | |
|-------------------------------------|--------|
| Straight Oil (Machining) | 2-10 % |
| Straight Oil (Drawing and Stamping) | 5-30 % |
| Soluble Oil (Machining) | 2-10 % |
| Soluble Oil (Drawing and Stamping) | 5-15 % |

Specification

| Item | Specifications |
|--------------------------------------------|------------------------------|
| Appearance | Clear & pale-yellow liquid |
| Color (HU Hazen Unit) | 170 Max |
| Chlorine Content (ww %) | 52 ± 0.2 |
| Specific gravity, at 25 °C | 1.250 ± 0.02 |
| Viscosity, at 25 °C (Poise) | 10 - 20 |
| Heat stability, at 180 °C for 20 min | Yellow to dark yellow liquid |
| Thermal stability, at 175 °C for 4 hrs (%) | 0.1 Max |
| Acid number (mg KOH/g) | 0.001 Max |
| pH, of 10% aqueous solution | 6.0 Min |