



Heavy duty cold Forming Fluid

PRODUCT PROFILE



- Martol 104 IN is a new generation fortified drawing fluid based on latest technology meant to meet both ferrous and non ferrous forming application.
- Speciality friction modifiers presence in Martol 104 IN helps in attaining better surface finish by reducing friction and built-up of heat. Semi synthetic nature helps in better thermal and oxidative stability over conventional products making it versatile in high temperature application

APPLICATIONS

- Martol 104 IN is designed for use in most modern production engineering application which includes punching, piercing, notching, stamping, bending, extruding, fine blanking. Suitable for stand alone as well as centralized lubrication system.
- Used for the lubrication of large fastener plugs and bolts in heading machine.
- Recommended for ferrous nut forming and cold forging operation.

ADVANTAGES

- Superior lubricity character Enhances die life, saves time and money
- Higher thermal conductivity reduces burn marks and soot formation thus improves surface finish
- Built-in friction modifier reduces heat, thus it can be operated at high speed without any metal seizure
- Its low foaming character renders better lubrication characteristics thus reduces rejection
- Higher degree of oxidation stability reduces sludge formation and frequent machine cleaning – Reduces down time
- Operator and environment friendly

Typical Characteristics	Reference Methods	MARTOL 104 IN
Colour	Visual	Dark brown liquid
Density at 29.5°	ASTM D 1298	1.005
Flash point PMCC, C	ASTM D 93	243
Viscosity @ 40 c	ASTM D 455	148
Presence of Friction Modifier	INTERNAL	Yes
Copper Corrosion	ASTM D 130	1 b

Above characteristics are mean values given as an information.

TOTAL OIL INDIA PVT. LTD.

Head Office : 3rd Floor, The Leela Galleria, Andheri-Kurla Road, Andheri (E), Mumbai - 400 059. Tel. : 022 66407700 Fax : 022 66407720
 Regional Offices : Chennai Tel. 044 28412790/28412823, Mumbai Tel. 022 25705775/6/7, Noida Tel. 0120 2516794/5/6, Kolkata Tel. : 033 66228200 / 8209

Date 01/12

All reasonable care has been taken to ensure that the information provided here is accurate as of date of printing. However due to continual product development, the information contained herein is subjected to change without notification. MSDS can be obtained from our local representative or can be down loaded from

www.total.co.in