CHEVRON QUENCHING OIL 70

PRODUCT DESCRIPTION

Chevron Quenching Oil 70 is designed to promote controlled cooling and wetting of steel in the hardening process.

CUSTOMER BENEFITS

Chevron Quenching Oil 70 delivers value through:

- **Controlled cooling of metals** — Combines the high initial quenching speed of water with slow final quenching speed of oil.
- **Safety** — High flash point and fire point minimize the possibility of fire problems.
- **Stable additive package** — Minimal loss of additives due to extended use.
- **Minimal oil carryout** — The light viscosity of this oil allows quick drainage from metal parts helping to prevent carryout.
- **Excellent thermal stability** — Provides high heat resistance to oxidation and thickening.
- **Deeper, uniform hardening** due to controlled cooling of metals.

FEATURES

Chevron Quenching Oil 70 provides a high initial cooling rate inducing maximum hardness, yet once the critical transformation temperature is passed, the ideal fluid cooling rate decreases to help eliminate the possibility of stresses and metal distortion.

APPLICATIONS

Chevron Quenching Oil 70 is recommended for use

- when deep and uniform hardening is required in steels having small grain size or wide variation in grain size
- in steels with lean alloy content
- in parts having variable sections or odd shapes
- in steels having variable hardenability

This highly stable oil resists the oxidizing effects of quenching and is less sensitive to the effects of agitation. It is highly heat resistant. No additive replacement is required and, in normal service, the product retains the original viscosity indefinitely.

Because of its ability to adhere to smooth or shiny surfaces, Chevron Quenching Oil 70 is also recommended for use when parts must retain a bright finish.

TYPICAL TEST DATA

Product Number	*233641*
MSDS Number	*2582*
API Gravity	34.0
Viscosity, Kinematic	
cSt at 40°C	16.5
cSt at 100°C	3.5
Viscosity, Saybolt	
SUS at 100°F	89
SUS at 210°F	38
Viscosity Index	87
Flash Point, °C(°F)	185(365)
Fire Point, °C(°F)	226(439)
Pour Point, °C(°F)	-15(+5)
Acid Number, ASTM D664	0.04
Quenchalyzer Analysis, D6200	
Maximum Cooling Rate, C/sec	96.5
Temp at Maximum Cooling Rate, C	630.5
Cooling Rate at 300 C, C/sec	6.1
Time to Reach 600 C, secs	7.3
Time to Reach 400 C, secs	11.3
Time to Reach 200 C, secs	44.1
Volatile Organic Content (VOC), g/L, ASTM E-1868-10	10

Minor variations in product typical test data are to be expected in normal manufacturing.

Product(s) manufactured in the USA.
Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

A **Chevron** company product

6 February 2012
MWF-30