

Technical Data Sheet

OPTIMA QUENCHING Oil (MINERAL)

PRODUCT DESCRIPTION :

OPTIMA QUENCHING is a highly refined paraffinic based quenching oil for the uniform hardening of carbon and alloy steels. The low viscosity of Optimus Quenching Oil enables fast oil circulation during heat transfer, providing rapid quenching, and reduced drag-out and fast draining, minimizing oil losses during operation.

APPLICATION :

- Heat treating applications involving quenching or rapid cooling of carbon and alloy steels.
- Heat treatment processes where a uniform hardening of steel with minimum distortion and coloration is desired.
- Slow quenching operations at bath temperatures between 30°C and 65°C where maximum hardness is not required.

FEATURES & BENEFITS :

Base oils of inherently high thermal and oxidation resistance in this oil provides maximum oil life. It maximizes production throughput. High thermal stability minimizes oil cracking and the formation of deposits on metal surfaces, limiting the need for post-quenching cleaning and stain removal operations.

TYPICAL PERFORMANCE :

PARAMETERS	ASTM	UNIT	OPTIMA QUENCHING
ISO VG Grade			46
Kinematic Viscosity @ 104°F /40°C	ASTM D-7042	cSt	46
Viscosity Index	ASTM D-2270	-	0/1-1
Flash Point (min)	ASTM D-1500	-	3.5
Pour Point	ASTM D-4052	g/cm3	0.885
Color	IP-263	ml	NIL

HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS.

STORAGE:

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.