



LUBRICANTS



# Product Data Sheet

## Super-Quench® 70

### Neat quenching oil

Designed for controlled rapid cooling of heat-treated steels. It is ideally suited for use when parts must retain a bright finish. Such parts are usually heat treated under a protective atmosphere.

### Features and Benefits

- Outstanding stability in quenching operations
- Reduces sludge forming tendencies
- Bright-finished parts
- Requires no additive replacement

### Applications

Recommended for use when deeper and more uniform hardening is required in steels having small grain size or wide variations in grain size, in steels lean in alloy content, when minimum distortion is required in high hardenability steels, or in parts having odd shapes or variable sections. It is ideally suited for use when parts must retain a bright finish. Such parts are usually heat treated under a protective atmosphere.

### Typical Properties

Properties	Test Method	Gulf Super Quench 70
Product Code		336261
Viscosity, cSt @ 40°C	ASTM D-445	16.0
Appearance		Dark
Pour Point, °F (°C)	ASTM D-97	-6 (-21)
Flash Point, COC, °F (°C)	ASTM D-92	360 (182)
GM Quencher, Sec (1)*	ASTM D-3520*	10.0 – 12.0

\*Note: (1) ASTM D-3520 is obsolete. Value shown is for reference only; using nickel ball.

These cooling rates and quench times are typical of current production. While future formulations will conform to Gulf specifications, variation in these typical properties may occur. Used oil values will vary from typical new oil values.

### Typical Quencher (ASTM D-6200) Data

Maximum Cooling Rate, °F/sec, °F	193
Temperature at Maximum Cooling Rate, °C	630
Cooling Rate at 600°F, °F/sec	15
Time to reach 600°C, sec	7
Time to reach 400°C, sec	11
Time to reach 200°C, sec	41

Rev. 06/21



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