

PRODUCT INFORMATION



Power Quench

DESCRIPTION: Power Quench has outstanding stability in quenching operations. It reduces sludge forming tendencies, enhancing the oil's ability to continuously produce clean, bright-finished parts. **Power Quench** exhibits excellent thermal stability, resisting changes in viscosity in normal service. Additionally, this product minimizes cracking and distortions through controlled cooling, requires no additive replacement, and its high flash point helps minimize fire hazards. Uniform heat dissipation promotes quality hardened metal

APPLICATION: Power Quench is 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	POWER QUENCH
Product Code		PA336260
Viscosity, cSt @ 40°C	ASTM D-445	16.0
Viscosity, SUS @ 100°F	Calculated	81.4
Viscosity Index	ASTM D-2270	109
Appearance		Clear, Very Dark
Pour Point, °F (°C)	ASTM D-97	-6 (-21)
Flash Point, COC, °F (°C)	ASTM D-92	360 (182)
GM Quenchometer, 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*Note: (1) ASTM D-3520 is obsolete.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 **Powers** specifications, variation in these typical properties can occur. Used oil values will vary from typical new oil values.

Typical Quenchalyzer (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



40 South Fifth Street Waterbury CT 06708
247 Northampton Street Easthampton MA 01027