



Fast Quench 70

Fast Quench 70

Benefits:

- Formulated to optimize heat resistance using paraffinic base oils and unique resins
- Synthesized to adhere to the surface to preserve bright part finishes
- Reduces sludge-forming tendencies to a minimum resulting in bright part finishes
- Excellent resistance to oxidation effects of quenching operations
- Minimizes cracking and distortion through controlled cooling of parts

Applications:

- Recommended for use in deeper and more uniform hardening required in steels having small grain size and in steels lean in alloy content.
- Recommended when minimum distortion is required in high hardenability steels, or in parts having odd shapes or variable sections.

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Properties	Test Method	
ISO Viscosity Grade		15
Quench Oil Stain Test		Pass
GM Magnetic Quenchometer, sec	ASTM D-3520	10.4
API Gravity, 60°F	ASTM D-1298A	34.6
Density, lbs/gal (g/L)	Calculated	7.11 (852)
Viscosity, cSt @ 40°C	ASTM D-445	14.5
Viscosity, cSt @ 100°C	ASTM D-445	75.5
Color	ASTM D-1500	opaque
Pour Point, °F (°C)	ASTM D-5949	-10 (-24)
Flash Point, °F (°C)	ASTM D-92	375 (190)
Conradson Carbon Residue, mass %	ASTM D-189	0.54
Product Code		4670

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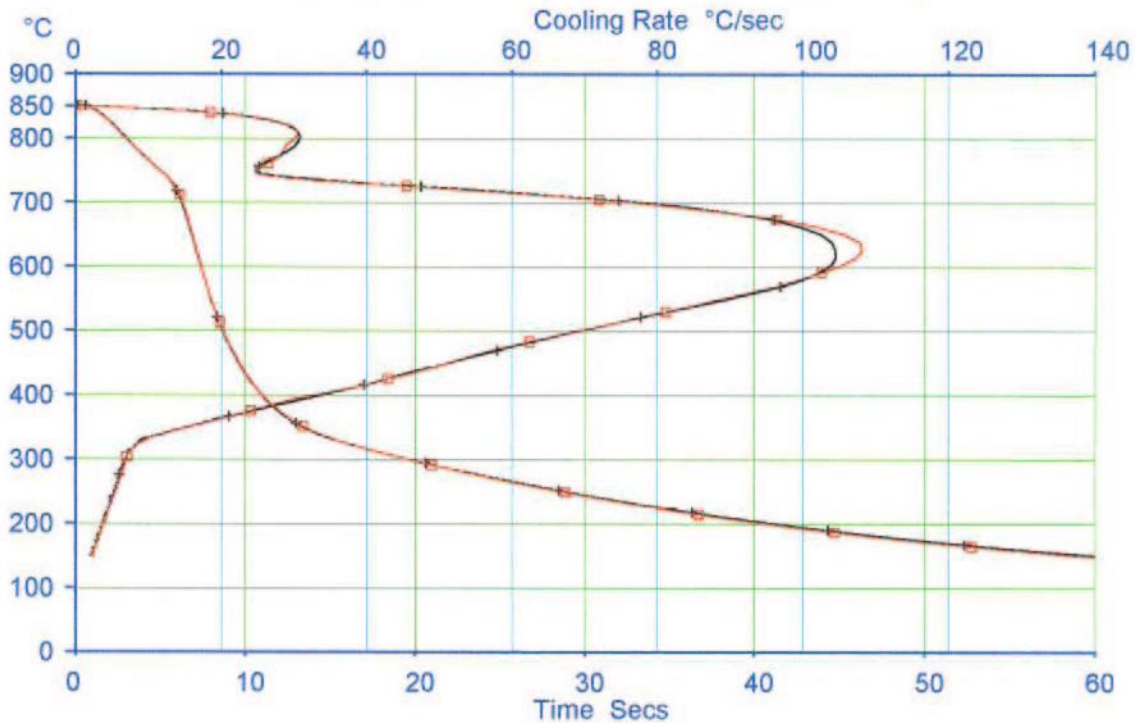
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Fast Quench 70 – Quenchalyzer Data



The cooling curve and cooling rate curve shown above were generated in accordance with ASTM D-6200. The data presented below are the average values obtained from the duplicate testing for **Fast Quench 70**.

Fast Quench 70 – Cooling Characteristics

Maximum Cooling Rate, °C/sec	ASTM D-6200	106.4
Temperature at Maximum Cooling Rate, °C	ASTM D-6200	620
Cooling Rate at 300°C, °C/sec	ASTM D-6200	6.90
Time to reach 600°C, sec	ASTM D-6200	7.4
Time to reach 400°C, sec	ASTM D-6200	10.9
Time to reach 200°C, sec	ASTM D-6200	40.8

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