Fusion Chemical

FUSION QUENCH OIL 10

FUSION QUENCH 10 is specially formulated quenching oil of premium quality giving faster cooling rates than straight quenching oils. Normal operating temperature range of **FUSION QUENCH 10** is 120 – 190 °F.

It contains a specialized additive package that promotes rapid cooling in the "B stage" of the component cooling curve, as compared to conventional quenching oil, which maximizes final component hardness in the "C stage" of the cooling curve, **FUSION QUENCH 10** functions as a well-established quench oil to minimize cracking or distortion in the quenched part.

FEATURES

* Superior quenching power in initial stages of quench - the hardening range.

* Slow cooling in final stage of quench - in the distortion range.

* Reduced sensitivity to the variable effects of agitation.

* High resistance to oxidation and thermal breakdown.

* Deeper and more uniform hardening in:
  - steels having small or wide variations in grain size.
  - steels lean in alloy content.
  - parts having variable sections or odd shapes.
  - steels having variable hardenability.

* Less distortion in:
  - high hardenability steels.
  - parts having variable sections or odd shapes.

APPLICATIONS

FUSION QUENCH 10 is the ideal quenching oil for use when deeper and more uniform hardening is required in steels having small or wide variation in grain size, in steels lean in alloy content, in parts having variable sections or odd shapes and in steels having variable hardenability.

It is also the ideal quenchant for use when minimum distortion is required in high hardenability steels or in parts having odd shapes or variable sections.

FUSION QUENCH 10 is also recommended for use when parts must retain a bright finish. Conventional quenching oils do not "wet" the surface. **FUSION QUENCH 10**, however, adheres to the surface preventing the formation of deposits during the operation thus preserving the bright finish.

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TYPICAL PROPERTIES

	Test Method	FUSION QUENCH 10
Specific Gravity	*D-287*	*0.871*
Gravity, °API	*D-287*	*31.9*
Viscosity, SUS(100°F)	*D-445*	*120.0*
Flash Point, COC, (°F)	*D92*	*415*
Fire Point, COC, (°F)	*D92*	*445*
Pour Point, (°F)	*D97*	*+5*
Color	*D1500*	*4.0 dil.*
Carbon Residue, Rams: %	*D524*	*0.57*
Neutralization No., Total Acid No.	*D664*	*0.04*
Magnetic Quenchometer Test Nickel Ball: sec.	*D3520*	*11*
Hot Wire		*34*