



Product Data Sheet



Quenching Oils

Metal Quenching Oils

Quenching Oils are designed for the quenching of metals. These oils are recommended for use where maximum hardness and high speed quenching of the metal is not important. These oils are recommended when faster, deeper and more uniform hardening is required in steels with wide variations in grain size and alloy content. Because of its excellent oxidation resistance, longer bath life is realized.

Product Features:

- Conducive to uniform hardening of steel
- Excellent oxidation resistance

Customer Benefits:

- Longer bath life

Applications:

- Metal Quenching operations





Typical Properties

Quenching Oils

Product Number	585	586	587	Test Method
API	29.97	32.29	33.19	-
Specific Gravity	0.8763	0.8639	0.8592	-
Lbs./Gal	7.298	7.194	7.155	-
Density	0.8759	0.8634	0.8587	-
Flash Point °C	227	197	186	ASTM D92
Pour Point °C	-12	-18	-18	ASTM D97
Color	<3.5	<3.5	<3.5	-
Viscosity@100°C cSt	8.2	4.919	3.783	ASTM 7042
Viscosity@40°C cSt	65.9	28.62	19.02	ASTM D445
Viscosity Index (VI)	96	92	79	-
Maximum rate, °C/Sec	73.01	74.29	77.26	ASTM 6200
Temp @ max rate °C	568.15	537.91	518.85	ASTM 6200
Rate @ 300°C, °C/Sec	7.59	9.49	11.93	ASTM 6200
Time (s) to 600°C	9.875	9.938	10.938	
400°C	14.063	13.5	14.25	ASTM 6200
200°C	43.325	39.25	36.75	

These properties are typical of the current production. Variations that do not affect product performance are to be expected depending on blending and manufacturing locations. The information above is subject to change without notice.

Health and Safety:

This product is unlikely to have any adverse health implications or safety hazards when used for its intended application. Avoid contact with skin, use resistant gloves when handling used oil. If skin comes in contact wash immediately with soap and water. For complete information on safe handling and product characteristics please refer to the Safety Data Sheet (SDS) found on our website. www.royalmfg.com or call (918)-584-2671.

Packaging options:



55 Gal. Drums



275/300 Gal Totes



>2,000 Gal. Bulk