Clear Quench 100

Clear Quench 100 has been developed to address the needs of the heat treater who requires exceptionally clean and bright quenched parts. Clear Quench 100 is formulated from a highly refined paraffinic base oil, a combination of high temperature oxidation inhibitors and a synthetic quench rate accelerator. This combination produces a clear quench oil with quench speeds like conventional fast quench oils with higher oxidation stability and reduced sludging tendencies. As a result, stain free, bright finished parts can be expected.

Features & Benefits

High oxidation stability	Long life; Lower cost to use
Clean bright surface	Low post quench finishing; Lower process cost
Fast	Higher productivity

Physical Data

	ASTM	100°C	200°C	600°C	700°C
Gravity, °API	D287	33	31.5	30	28
Flash, °F Min. C.O.C.	D92	375	430	455	470
Viscosity @ 100°F SUS	D2161	82	200	400	700
Pour, °F	D97	-15	-10	0	+15
Viscosity Index, Min.	D2270	95+	95+	95+	95+

Operating Conditions

The Clear Quench 100 is designed to have a short vapor stage, an accelerated rapid boiling stage, and a slow smooth cooling rate through the critical martensite transformation temperature range to insure full hardness. The Clear Quench 100 is suitable for use up to 180°F.

Hubbard-Hall maintains a complete metalworking lab where cooling rate and cooling curve analysis can be performed on our Quench analyzer for your comparison. Please contact your sales representative for cooling curve data which may be of assistance in the selection of the proper quench oil.

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Our People. Your Problem Solvers.

For more information on this process,
please call us at 203.756.5521 or email: techservice@hubbardhall.com

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