



CITGO QUENCH OILS

Date 1/09

DESCRIPTION: CITGO Quench oils are designed especially for the heat treatment of steel in a wide variety of quenching operations.

QUALITIES: CITGO Quench oils are available in various grades. They are all formulated with stable, high VI, solvent-refined stocks. The chemical additives in these oils provide good oxidation resistance, excellent wetting ability and superior cooling capability.

CITGO Quench oils are highly stable, and their high viscosity index assures a minimum viscosity change during the entire quenching operation.

APPLICATIONS: CITGO Quench oils give superior service where a medium-to-fast rate of quench is desired. The uniform heat dissipation property of these fluids allows for a quality hardened metal.

TYPICAL PROPERTIES:

	CITGO QUENCH OILS			
	Quench Oil 22	Quenchol® 0510	Quenchol® 0521	Quenchol® 0624
Material Code	637102001	637120001	637121001	637122001
Gravity, ASTM D 4052, °API	32.2	35.0	33.0	30.0
Density, lb/gal at 60°F	7.2	7.1	7.2	7.3
Flash Point, ASTM D 92, °F (°C), Min.	395 (202)	305 (152)	354 (179)	410 (210)
Viscosity:				
ASTM D 445, cSt at 40°C	24	10	22	50
cSt at 100°C	4.4	–	–	7.1
SUS at 100°F	125	52	105	227
SUS at 210°F	41.1	–	–	–
Viscosity Index, ASTM D 2270	92	–	–	100
Pour Point, ASTM D 97, °F (°C)	5 (-15)	30 (-1)	16 (-9)	16 (-9)
Color, ASTM D 1500	D8	Dark	Dark	Dark
Quenching Time (Quenchometer), ASTM D 3520, Sec.	16	14.5	16.1	17.0