



Quench Oil 517

Dyna-Plex 21C® Quench Oil 517 is a precision quenching oil for use in critical heat-treating applications. It is best described as a fast-quench oil with wetting agents and polar compounds to reduce the duration of the initial vapor stage. The cooling rate during the initial quenching stage is high and uniform. Heat extraction during the final stage is low, which minimizes cracking and distortion. Quench Oil 517 has excellent thermal stability to reduce sludge formation, keep parts cleaner, and prolong quench oil serviceability.

Dyna-Plex 21C Quench Oil 517 can be used at bath temperatures from ambient up to 190F maximum. It is an excellent choice for fast quenching and case hardening of carbon and low-alloy steels. It can be used in all common quenching systems to include open, sealed, and continuous furnaces.

COOLING CHARACTERISTICS

Max Cooling Rate
Temperature @ Maximum Cooling Rate, °F
Time to reach 600°C
Time to reach 400°C
Time to reach 200°C

TEST SPECIFICATIONS

165°F/second
1085
5.75 seconds
8.88 seconds
34.94 seconds

TYPICAL PROPERTIES

API Gravity	33.5
Pour Point, °F	0
Viscosity @ 40°C, cSt	19
Viscosity @ 100°C, cSt	4.1
Viscosity Index	113
Flash Point, COC, °F	360
Fire Point, °F	410
Color	Light Amber