

## ADVANTAGE QUENCHING OILS

### OVERVIEW

ADVANTAGE quenching oils are specifically designed to meet the needs of commercial heat treaters facing the challenges of today's increasing heat treatment problems. ADVANTAGE quenching oils are blended from high quality paraffinic base oils and specifically formulated to maintain long term performance and operational productivity.

### FEATURES & BENEFITS

#### CONVENTIONAL QUENCHING OIL

The ADVANTAGE QUENCH 1001 is recommended for the conventional quenching of steels with low critical cooling rates and bath temperatures up to 190 °F.

#### FAST QUENCHING OILS

In those operations where metals require high critical cooling rates, ADVANTAGE has incorporated a speed additive for fast quenching capabilities. These are particularly useful for hardening lower cost (lower hardenability) steels. These oils impart optimal physical properties to steels that cannot be sufficiently hardened by conventional quenching oils. The viscosity of these products is low, oil runoff is fast, and drag out losses and the load on parts washers are reduced. ADVANTAGE QUENCH 1021 is recommended for applications where it is important to maximize steel hardness while minimizing distortion. ADVANTAGE QUENCH 1032 contains an additive that allows baths to be operated up to 250 °F, reducing the danger of distortion and stress cracks. ADVANTAGE QUENCH 1032 also prevents sludging and oxidation.

### TYPICAL PROPERTIES

<b>PRODUCT</b>	<b>1001</b>	<b>1021</b>	<b>1032</b>
PRODUCT CODES	891	890	893
Viscosity, cSt/40 °C	19.4	16.7	17.1
Viscosity, SUS/100 °F	103	90	107
API Gravity	33.1	32.0	31.5
Flash Point, COC °F	390/220	365/186	370/188
Color	0.5	D-8	d-8
Calcium			Present