

## Product Data Sheet

### Zenoli Premium

#### Description and Applications

**Saheli Zenoli Premium** is premium quality high speed quenching oil specially developed for heat treatment of ferrous metals in a wide variety of quenching operations.

**Saheli Zenoli Premium** is formulated from highly refined paraffinic oils and performance additives to provide excellent thermo-oxidative stability, enhanced metal wetting ability and low deposit formation tendency.

**Saheli Zenoli Premium** combines high initial cooling rate to induce maximum hardness with a slow final quenching rate to minimize stress and metal distortion. Its high flash point minimizes smoke and fire hazards.

**Saheli Zenoli Premium** is designed to provide long service life and smooth surface finish.

**Saheli Zenoli Premium** is recommended for high speed quenching of ferrous metals such as carbon steel, gray iron and alloy steels where maximum hardness is required while controlling distortion.

#### Features and Benefits

- Excellent thermal and oxidation stability minimizes deposit formation and viscosity increase
- Superior ageing stability leads to extended service life and reduced downtime.
- Cooling characteristics not only induce maximum hardness but also ensure uniform microstructure.
- Enhanced metal wetting ability minimizes stresses and metal distortion.
- Imparts good surface finish.
- Lower drag-out losses and reduced clean-up costs minimize operational costs.
- Low volatility reduces oil loss from vaporization.

#### Applications

High speed quenching of ferrous metals such as carbon steel, gray iron and alloy steels where maximum hardness is required while controlling distortion.

Test Parameters	Test Method	Typical Results
Density @ 15°C gm/cm <sup>3</sup>	ASTM D1298	0.861
Viscosity Index	ASTM D2270	105
Viscosity @ 40°C (cSt)	ASTM D 445	22.1
Pour Point °C	ASTM D 97	-24
Flash Point (COC) °C	ASTM D 92	196
GM Quench Speed, seconds	ASTM D 3520	12.3