

AZTEC OILS LTD

QUENCHING OIL ACC 22 & 32

An excellent quality heat treatment fluid, specifically formulated as an accelerated quenching oil for high speed quenching operations, requiring maximum performance in terms of strength and hardness with minimum distortion of difficult alloys.

QUENCHING OIL ACC has been developed using highly refined paraffinic base stocks, which demonstrate excellent thermal stability, low volatility and inherent oxidation resistance, these properties being necessary to maintain performance over extensive periods of operation.

QUENCHING OIL ACC incorporates a highly effective additive system which provides consistent accelerated quench speeds by imparting high surface activity, thereby reducing the vapour blanket contact time during the cooling stage, promoting improved initial thermal conductivity and even hardening.

QUENCHING OIL ACC provides:-

- * Anti-corrosion properties.
- * High Quench speed.
- * Long lasting performance.
- * High resistance to oxidation and thermal decomposition.
- * Consistent response to temperature variation.
- * Uniform Quenching characteristics producing consistent quality.

APPLICATION

QUENCHING OIL ACC is suitable for use in all types of systems including open tank quenching, sealed quenching furnaces and link and mesh belt continuous hearth furnaces.

QUENCHING OIL ACC is particularly suitable for heavy section steels of low hardenability, and is recommended where minimum staining of components is desired.

METHODS OF USE

It is recommended that circulation of Quenching Oil ACC during use should be maintained, in order to achieve a uniform oil temperature within the tank and at the component surface and to disperse the vapour blanket.

Circulation can be effected by pump or impeller, ingress of air should be avoided as this will cause premature oxidation of the product.

Water contamination should be avoided, as this can cause the formation of soft spots, distortion and component cracking, excess water can also cause frothing resulting in loss of product, vapourisation and a potential fire hazard.

QUENCHING OIL ACC is also available as a water washable product where easy removal of the Quenching Oil is required, effectively by a water wash off avoiding the need for degreasing.

Typical specifications and characteristics

	Method	ACC22	ACC32
Density KG @ 15 Deg C	IP160	0.86	0.87
Flash point Deg C	IP15	203	248
Pour point Deg C	IP15	-20	-10
Viscosity @ 40 Deg C	IP71	22	32
Viscosity @ 100 Deg C	IP71	4.0	5.8
Viscosity Index	IP226	100	105
Thermal Conductivity		0.06	0.064
Heat Capacity		0.64	0.65
Vapour Pressure mm/hg		25	25

Health & Safety Please refer to the relevant health & safety data sheet, a copy of which is freely available to all of our customers