



## Excelquench 601 & 604

Straight mineral oil based quench oils

Product code: Refer to table below

### Product Description:

These Excelquench grades are specially formulated, highly refined paraffinic general-purpose quench oils.

When a piece of steel, containing sufficient carbon, is cooled rapidly it becomes considerably harder than it would if allowed to cool slowly. The preferred quenchant is one, which removes heat slowly in the vapour stage and rapidly in the vapour transport stage. The quenchant must also remove heat slowly in the liquid cooling stage when the metal is completely wetted by the fluid in order to reduce distortion.

The Excelquench range of quench oils have been formulated to promote uniformed rates of cooling. They do not readily oxidise and have a naturally high flash point.

### Benefits:

- High oxidation stability
- Low fuming
- Fast quenching rates

### Application:

They are recommended for use as a quench oil for steels such as EN1a, EN32, EN36, EN37, set screws and hardened bolts in EN8, EN9, EN15, EN19, EN111. The operating temperature of the oil bath should be between 25 and 80°C.

### Typical Test Data:

Excelquench	601	604
Product code	Q001	Q005
ISO VG	22	32
Specific Gravity @ 15.6°C	0.873	0.875
Kinematic Viscosity @40°C (cSt)	21.97	32.02
Kinematic Viscosity @100°C (cSt)	4.28	5.41
Viscosity Index	101	102
Pour Point (°C)	-15	-12
Flash Point (°C)	195	210
Appearance	Pale straw	Straw

### Health & Safety:

Please refer to the safety data sheet, a copy of which is freely available to all of our customers.