



# TECHNICAL DATA SHEET

## GRODAL POLYQUENCH 12

### POLYMER QUENCHANT

#### DESCRIPTION

Grodal Polyquench 12 is a water soluble polymer quenchant for use in Induction and Flame hardening applications. It is a PAG based product and mixes easily with water to produce a quenchant which is instantly ready for use. The cooling rate of Grodal Polyquench 12 can be varied by changing the concentration of the solution. It contains corrosion inhibitor to protect the parts and fittings.

#### APPLICATION

Grodal Polyquench 12 is designed for use in induction and flame hardening applications including the treatment of crankshafts, camshafts, half shafts and starter ring gears. The flexibility of quenching speed overcome many disadvantages of mineral oil based quenching systems. It also eliminates the smoke, fume and fire hazards which is in oil quenching.

#### BENEFITS

- Very safe and healthy working environment.
- Uniform quenching characteristics.
- Good corrosion protection.
- Flexibility of quenching speed.
- Avoids the formation of soft spots.
- Improves wettability on component surface

#### TECHNICAL DATA

Concentrate Appearance	:	Pale viscous liquid
Sp. Gravity @30°C	:	1.05
pH (Neat)	:	9.5
Solution Kinematic Viscosity @ 40°C in cSt.		
5 %	:	0.90
10 %	:	1.65

#### RECOMMENDATIONS

It is satisfactory with all steel, cast iron, aluminium, brass and copper but not compatible with lead, magnesium and zinc metals. The epoxy resin based paint is recommended. Avoid any residual swarf and machining coolants carry over. Storage at room temperature is suggested.

#### SAFETY

This oil is unlikely to present any significant health or safety hazard when properly used in the recommended application as well as good standards of industrial and personal hygiene is maintained.

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