

Product Data Sheet

IPOL Enhanco Super Grind 600

High performance grinding fluid based on synthetic technology

Description:

IPOL Super Grind 600 is 4th generation premium range high performance grinding fluid based on synthetic technology, this is developed with the latest chemistry complementing the leading grinding machine tool manufacturers stringent requirement of high speed, superior surface finish & minimum tool/grinding wheel wear. The combination of low viscosity and optimum lubrication ensures a smooth grinding operation & superior flushing.

Salient Features & Benefits:

- Special additives combination reduces the dressing cycle, internal evaluation proves 10% improvement in dressing cycle.
- Special additive chemistry ensures improved surface finish & no micro cracks in surface.
- Synthetic based products increases the productivity & offers additional benefits.
- Low viscosity and excellent wetting characteristics reduces drag out & improves flushing.
- Higher flash point, reduced fumes & consumption of the product.
- Especially suitable for grinding of tungsten carbide without cobalt leaching.
- Good filtering characteristics & high oxidation stability increases product lifetime.
- Chlorine free formulation improves the environmental profile & reduces disposal cost.
- Selected combination of additives enables excellent foaming & air release properties.
- Offers clean machines & good process visibility.

Application:

- Product especially designed for tungsten carbide, HSS, Steel grinding with diamond wheel, also it can be used for other metals & grinding operations after recommendations of our specialist.
- Also suitable for honing, lapping, super finishing, precision turning & finish-milling operation after recommendation of our MWFs expert.

Characteristics:

Test Parameters	Test Methods	Typical test results
Appearance, Visual	Visual	Clear liquid
Color, ASTM	ASTM D1500	0.5
Specific Gravity @ 30°C	ASTM D 1298	0.792
K. Viscosity at 40 °C (cSt)	ASTMD 445	6.15
K. Viscosity at 100 °C(cSt)	ASTMD 445	2.02
Viscosity Index	ASTM D 2270	130
Wear scar (mm)	ASTM D 2266	0.44
Friction coefficient	In house	0.045
Weld Load (kg)	ASTM D 2783	200
Flash Point (COC) -°C	ASTM D 92	158
Copper Corrosion	ASTM D 130	1b
Sulphur Content (ppm)	ASTM D4681	Present

The above data is typical & does not constitute a specification. The information provided is not to be taken as a warranty or representation for which we assume no legal responsibility, nor as permission or recommendation to practice any attended location or otherwise. It is solely offered for your consideration, investigation and verification.

Storage:

The product should be stored inside shed (5 - 40°C) for not more than 1.5 years & to be protected from freezing.

Health & Safety:

Guidance on Health & Safety are available on the appropriate Material Safety Data Sheet, which can be obtained from your GP Petroleums representative.