



TRICOOL

– International –

P6AES

P6AES is the acid form of a phosphate ester anionic surface-active agent, based on an aliphatic ether. P6AES is neutralized in-situ with amines or metal hydroxides to produce excellent low foaming extreme pressure additives. It is typically used in formulations at levels between 1.5% and 4%, depending on the application and material being worked upon.

The additional benefit of P6AES is its co-functionality and it therefore imparts extra emulsification and detergency properties to the formulation system.

Suitable for aluminium and magnesium alloys.

Physical & Chemical Properties:

○ Appearance	Colourless/Amber Viscous Liquid
○ pH	Approximately 2.5
○ Density 20c (g/ml)	1.02
○ Solubility In Water	Soluble
○ Solubility In Oil	Soluble
○ Acid Value (mg KOH/g)	78-85



Tricool International (Taiwan) Limited.

200, Lane 333, San-Min South Rd., Shen-Kang District, Taichung City, Taiwan

Tel: +886-4-2561-5862

E-mail: industrialproducts@hotmail.co.uk



TRICOOL

– International –

P6AES

Typical Formulation:

Base Oil	@	35%
Chloro Paraffin	@	13%
Sulphonates	@	13%
B6M	@	15%
P6AES	@	2%
MBM	@	3%
DTO	@	2%
IPBC 30	@	0.5%
SMO	@	1.5%
Water	@	11%
Antifoam	@	0.15%

The above formulation will produce a semi-synthetic coolant, giving excellent machining performance and tool life. Increasing the level of P6AES will make the product applicable for die-cast aluminium, copper and brass.

Use on stainless high tensile steels and aluminium alloys.

Storage Advice

P6AES should be stored under cover out of direct sunlight and protected from extreme temperatures, ideally at 10c-30c. Avoid water being collected on the rim of drums. P6AES has a shelf life of 12 months from the date of supply when stored under the recommended conditions.



Tricoool International (Taiwan) Limited.

200, Lane 333, San-Min South Rd., Shen-Kang District, Taichung City, Taiwan

Tel: +886-4-2561-5862

E-mail: industrialproducts@hotmail.co.uk



TRICOOL
– International –