

Technical data sheet

Methyltetrahydrophthalic anhydride NT-K1 (MTHPA NT-K1)

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Chemical composition

Anhydride MTHPA NT-K1 is a pre-accelerated blend of cycloaliphatic anhydrides mainly based on MTHPA isomers.

Equivalent weight (theoretical): 167.3

Product specification

Characteristics	Unit	Value	Method*	Reference
Appearance		Clear liquid	L000	
Anhydride content	%	98.5 min	L001	
Colour	Gardner	4 max	GM011	ASTM D-1544
Acid content	%	0.5 max	L002	

* Internal methods available upon request.

Typical properties

Characteristics	Unit	Value		
Viscosity @ 25°C	mPa.s	50 ÷ 100	G006	DIN 53015
Density @ 25°C	g/ml	1.195		
Vapour pressure @ 120°C	mmHg	2.0		
Refractive index n_D^{25}		1.4953		

Main applications

MTHPA is mainly used as a curing agent for epoxy resins. It has a low tendency to absorb moisture from the air and zero or minimal formation of carbon dioxide when mixed with tertiary amine accelerators.

MTHPA can be easily blended with various liquid resins providing stable, low viscous mixtures and long pot lives. It is widely used for:

- Casting / Potting
- Impregnation
- Lamination

In the field of reinforced plastics it is used for filament winding products (pipes for oil, poles and sport goods), laminated sheets, printed circuit boards, switch gears.

Thanks to its excellent insulating properties, MTHPA found a lot of applications for the production of electrical parts such as: capacitors, resistors, wiring parts transformers, ignition coils, fly back transformers.

Handling

Packaging: Steel painted drum 220 kg;
bulk;
Upon request other form of packaging can be available.

Storage: It must be stored away from open flames or other potential ignition sources, and should be protected from moisture because it easily crystallizes when in contact with the air moisture.
During the winter season MTHPA can solidify, but it can be easily remelted by simply heating.

Shelf life: 12 months from production date.

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