

SYNTHALAT TH 30 HS

Characteristics: Short-oil alkyd resin modified with phenolic resin

Composition: approx. 27 % phthalic acid anhydride content
approx. 31 % linseed oil
approx. 14 % modifying resins

Supplied as: A) 80 % in xylene
B) 75 % in Shellsol D 25 / Solvenon PM

Use: Air-drying and oven-drying primer coatings for industrial application such as machinery and steel constructions. The relatively low viscosity allows preparation of primers and topcoat varnishes with significantly higher non-volatile content and good drying properties, also in thicker coating layers.

Properties:	A	B
<u>Viscosity in mPas</u> (as supplied) (internal method AV-F-V005)	12000 – 22000	2000 - 8000
<u>Acid value:</u> (based on non-volatile content) (internal method AV-F-S001)	< 20	< 20
<u>Iod Color value:</u> (diluted to 50 % with xylene) (internal method AV-F-F007)	< 20	< 20
<u>Non volatile content in w %:</u> (as supplied) (internal method AV-F-F003)	80 +/- 1	75 +/- 1
<u>Flash point in °C:</u> (as supplied) (internal method AV-F-F006)	37	29
<u>Density in g/ml</u> (as supplied) (internal method AV-F-D001)	approx. 1.04	approx. 1.03

Solubility:	petroleum spirit 100/140	-	white spirit	0
	oil of turpentine	+	Toluene	+
	Xylene	+	Solvent Naphta	+
	Ethyl acetate	+	Butyl acetate	+
	Methyl ethyl ketone	+	Methyl isobutyl ketone	+
	Ethyl glycol	+	Butyl glykol	+
	Methylglykolacetat	+	Ethyl glykolacetate	+
	Ethanol	-	Butanol	0
	Diacetonalkohol	x		

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Compatibility:

Linseed oil for varnish	-	Linseed oil-stand oil 30 P	-
Linseed oil-stand oil 90 P	-	Short-oil drying alkyds	0
Medium-oil drying alkyds	+	Short-oil non-drying alkyds	0
Long-oil drying alkyds	-	Maleic resins	+
Epoxy esters	x	Alkyl/terpene phenolic resins	+
Phenolic-mod. colophony resins	+	Unplast. urea resins	+
Ketone resins	0	Chlorine rubber	-
Unplast. melamine resins	+	Chlorinated vinyl polymers	-
Cyclorubber	0	Basic pigments	-
Ester-soluble nitrocellulose	+		

+	=	dilutable / compatible
x	=	largely dilutable / compatible
0	=	limited dilutability or not dilutable / compatible
-	=	very limited dilutability or not dilutable / compatible