

COATING RESINS

TECHNICAL DATA

SYNOLAC 3004 (70%)

SALES SPECIFICATION

Non-volatile content, % @ 150°C	68 - 72
Viscosity in CPS at 30°C (50%in MTO) (By Brookfield Viscometer)	500 - 700
Colour, Gardner scale (ISO 4630)	≤ 12 Gardner
Acid value, mg KOH/g (ISO 3682)	≤15

OTHER PROPERTIES

Volatile	MTO
Non-volatile content, % @ 150°C	70
Flash point, °C (ISO 3679)	37
Density at 20°C (ISO 2811)	0.98
Oil or Fatty Acid Type	Safflower
Oil Length in %	55%

Note –Acid Value quoted relative to solid resin

PRODUCT INFORMATION

SYNOLAC 3004(70%) SYNOLAC3004(70%) is a Medium oil oxidising alkyd resin which is based on Safflower oil and modified with Isophthalic and Glycerol.
SYNOLAC3004(70%) is recommended for use insulating varnish It is available in 70% solids. Particular advantages gained by using this resin include:

- Excellent Thermal stability.
- Good Chemical resistance.

Solubility:

SYNOLAC3004(70%) is soluble in aliphatic and aromatic hydrocarbons ketones and esters.

COMPATIBILITY : SYNOLAC3004(70%) is compatible with most of the long and medium oil alkyd, drying oils and Varnishes, Chlorinated rubber. It is partially compatible with short oil alkyds.

DRIERS :

For Air Drying applications recommended drier combination is as Follows ; 0.05% Cobalt 0.1% Calcium and 0.5% Lead calculated as on metal basis. In lead free systems use 0.2% - 0.6% of Zirconium can be used as an alternative to Lead.

Typical Drying time using above combination are as follows:

S. D.	-	1 – 2 hrs.
T. D.	-	3 – 4 hrs.
H. D.	-	O/N

USES:

This resin is used mainly for insulating varnishes.

SYNOLAC 3004(70%) should only be used in applications consistent with the above recommendations. Proposals to use the resin in other ways should be discussed with Cray Valley before any action is taken.