

Technical Information of INT 8601 Synthetic Resin

INT 8601 synthetic resin is alicyclic resin with high hydroxyl value. It is compatible with coating/printing raw materials. It is soluble in almost organic solvents especially in carbinol and ethanol, so it is more suited to alcohols solvent systems. It exhibits good wetting and dispersion to paints. It can also improve dryness, gloss, hardness and solid content of coatings. It is a kind of excellent multifunctional additive to coating/printing.

Specification

Property	Data	Test Method
Appearance	Yellowish, transparent solid, no obvious mechanical impurity after dissolution	Naked eye
Softening point(°C)	120-130	ISO 4625-1:2004
Color Gardner ^[1]	< 1	ISO 4630-1:2004
Acid value(mgKOH/g)	< 3	ISO 2114:2000
Hydroxyl value(mgKOH/g)	≥ 200	DIN 53240-2:1998
Density(g/cm ³)	1.15±0.05	ISO 1183-1:2004(E)B
Kinematic viscosity ^[2] (mm ² /s)	40-60	GB/T 1660-2008
Ford cup 4 viscosity ^[3] (s)	20-30	ASTM D1200

[1] The resin is 50% (mass fraction) solution in ethanol.

[2][3] 50% resin solution of ethanol, solution temperature remains 25°C when viscosity is detected.

Solubility

INT 8601 synthetic resin is soluble in many common paint solvents such as alcohols, ketones, esters and so on, but insoluble in water. Its solubility in aromatic hydrocarbon and nonpolar solvents such as mineral oil, aliphatic hydrocarbon, alicyclic hydrocarbon is limited, which should be paid attention.

Compatibility

INT 8601 synthetic resin is compatible with most coating/painting resins including:

Alkyd resin	Phenolic aldehyde resin	Vinyl chloride copolymer
Cellulose nitrate	Chlorinated rubber	Acrylic ester resin
Cellulose acetate-butyrates	Epoxy resin	Polyurethane
Polyamide resin	Rosin	Phthalate plasticizer

Application

INT 8601 synthetic resin is more suitable for formulation of alcohol soluble coating/printing because of its high hydroxyl value and excellent alcohol-soluble, it can improve gloss, hardness, dryness and fullness of coating/printing. It shows excellent wetting to the coating and filling.

Storage

INT 8601 synthetic resin must be stored in dry and cool place, the period of validity is one year, it also can be used after one year if examined again and conformance to requirements.