

Technical Data Sheet of Synthetic Resin INT 8601

INT8601 is alicyclic resin with high hydroxyl value functionally near to UK-500, compatible with coatings/printing ink raw materials, soluble in almost organic solvents especially in alcohols solvent systems such as carbinol and ethanol, resulting in a high formula cost performance. It exhibits good wetting and dispersing effects on coatings as well as improves coating film's drying speed, gloss, hardness and solid contents when being used as a kind of excellent multifunctional additive in coatings/printing ink formulas.

1、Main Technical Data

Property	Description & Data	Test Method
Appearance	Colorlessly crystal or slightly yellowish, hard small piece, no obvious mechanical impurities 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)	240-270	DIN 53240-2:1998
Density(g/cm ³)	1.15 ± 0.05	ISO 1183-1:2004(E)B

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

2、Solubility

Soluble in 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.

3、Compatibility

compatible with most coatings/paint resins including:

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

4、Application

- Dissolved into solvents to prepare the 50% resin solution, and then added it into coatings/oil ink formulas appropriately. Recommended adding percentage is 5-30% of the formula's total mass.
- INT 8601 has high hydroxyl value and excellent pigment and filler wetting function.
- Used in coatings/oil ink formula to effectively coating film's gloss, adhesiveness, hardness, drying speed and fullness.

5、Package & Storage

- Package: 25kg/bag
- Stored in dry and cool environment.
- Shelf life not less than 12 months and able to be used after validity period if key data still conform to requirements after being tested.