

Technical Data Sheet of Synthetic Resin INT 8603

INT8603 is mainly used in coating/ink oil formulations functionally near to UK-300 resin, compatible with coatings/printing ink raw materials, soluble in almost organic solvents. It exhibits good wetting and dispersing effects on coatings as well as improves coating film's gloss, hardness and adhesiveness, resulting in good overall performance and formulation adaptability.

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)	110 ± 10	ISO 4625-1:2004
Color Gardner ¹¹	≤1	ISO 4630-1:2004
Acid value(mgKOH/g)	≤2	ISO 2114:2000
Hydroxyl value(mgKOH/g)	200-240	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	Resin	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 8603 has excellent compatibility and solubility, good transparency, applicable for various sorts of coatings/oil ink formulas;
- Used in coatings/oil ink formula to effectively coating film's gloss, adhesiveness, hardness, drying speed and fullness.
- Good pigment and filler wetting function, applicable for all-purpose colorant's grinding resin; used in coatings to increase the solid content.

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.