

## Technical Information of INT 8603 Synthetic Resin

INT 8603 synthetic resin is similar to CA resin and UK-500 resin. It is mainly used in formulation of coating/ printing. It is compatible with coating/printing raw materials. It is soluble in almost organic solvents and exhibits excellent wetting and dispersion to pigment. It can also improve adhesion, gloss and hardness of coating.

### Specification

Property	Data	Test Method
Appearance	Yellowish, transparent solid, no obvious mechanical impurity after dissolution	Naked eye
Softening point(°C)	105-115	ISO 4625-1:2004
Color Gardner <sup>[1]</sup>	< 1	ISO 4630-1:2004
Acid value(mgKOH/g)	< 3	ISO 2114:2000
Hydroxyl value(mgKOH/g)	200-240	DIN 53240-2:1998
Density(g/cm <sup>3</sup> )	1.15±0.05	ISO 1183-1:2004(E)B
Kinematic viscosity <sup>[2]</sup> (mm <sup>2</sup> /s)	35-55	GB/T 1660-2008
Ford cup 4 viscosity <sup>[3]</sup> (s)	15-25	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 8603 synthetic resin is soluble in almost common paint solvents such as aromatic hydrocarbons, alcohols, ketones, esters and so on, but insoluble in water. Its solubility in nonpolar solvents such as mineral oil, aliphatic hydrocarbon, alicyclic hydrocarbon is limited, which should be paid attention.

### Compatibility

INT 8603 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-butyrate	Epoxy resin	Polyurethane
Polyamide resin	Rosin	Phthalate plasticizer

### Application

- INT 8603 synthetic resin can be used in many types formulation of coating/painting.
- It can be used to improve the gloss, adhesion, hardness, fullness, dryness and so on of coating.
- It shows excellent wetting and dispersion to the pigment and can be used as grinding resin of universal pigment paste, the solids content can be increased when it is used in coating.

### Storage

INT 8603 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.