

# Technical Data Sheet

## Epoxy Resin 5052A/5052B

### Introduction:

Cold/Room Temperature Curing Epoxy System.

Epoxy Resin 5052A is a low viscosity epoxy resin.

Epoxy Resin 5052B is a mixture of polyamines.

Epoxy Resin 5052A/5052B is a combination of special epoxy adhesives with superior performance. It adopts our self-synthesized slow-drying closed alicyclic curing agent. It has the characteristics of low viscosity, long pot life, high compressive strength, high temperature resistance, and excellent electrical properties. It is especially suitable for downhole filling or pouring of large platforms during oilfield exploitation.

### Applications:

Aerospace and industrial composite materials, tools, aircraft maintenance and repair, oil production well plugging.

### Properties:

- \* Low viscosity, easy impregnation of reinforcement materials.
- \* Wide range of ratio 5052A: 5052B=100g:20~35g (the smaller the ratio, the longer the operation time, and of course the curing time will be extended accordingly)
- \* Long pot life (A:50g, B:10g, it still flows for 4 hours at 50°C, but it is fully cured at 20 hours/50°C), sufficient processing time allows the production of large objects.

### General Properties:

Items	Method/ Condition	Product	
		5052A	5052B
Appearance	Eyes	Colourless Transparent Liquid	Yellow Transparent Liquid
Density, g/cm <sup>3</sup>	25°C	1.1-1.15	1.01-1.05
Viscosity, mPa.s	25°C	1500-3500	30-100
Validity Date	RT, Ventilation	6 months	6 months

Processing:

- \* Wet lay-up
- \* Resin Transfer Moulding (RTM)
- \* Pressure Moulding
- \* Filament Winding

Performance in Processing:

Items	Condition	5052A/5052B
Mixture Ratio	Weight	100g:25~35g(30g suggested)
Use Time	50°C	240 min.
Curing Conditions	°C/hours	25°C/24~72 hours, Room temperature curing for large products
Curing Conditions	°C/hours	50°C/20 hours, 65g(50g:15g) cured flake, Hardness: 80-83D/50°C

**Characteristics after Curing:**

Hardness: Shore-D, 80-88D

**Note:**

- \* Before using, please be sure to weigh accurately and stir well to ensure the uniformity of product quality.
- \* A very small number of people will have mild skin allergies and mild itching when contacting the glue for a long time. It is recommended to wear protective gloves when using them. Please wipe off with acetone or alcohol when sticking to the skin and clean it with detergent.
- \* Before using it in large quantities, please try it in a small amount and master the use skills of the product to avoid mistakes.

**Packing:**

200kg drum