

Neopentyl Glycol Diglycidyl Ether (NGDE)

Low-viscosity difunctional reactive-diluent development in epoxy systems.

CAS No. 17557-23-2	EC / List No. 241-536-7	Transport Non-dangerous goods
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Product Information

Neopentyl glycol diglycidyl ether, abbreviated NGDE, is a difunctional aliphatic epoxy reactive diluent. It is selected to modify uncured-resin viscosity and the cured network in a complete epoxy formulation. The product name is neopentyl glycol diglycidyl ether; the legacy page path is preserved for continuity.

Specifications

Parameter	Specification
Appearance	Colorless transparent liquid
Color, APHA	≤60
Viscosity at 25°C	10–25 mPa·s
Epoxide equivalent weight	139–147 g/eq
Epoxy value	0.68–0.72 eq/100 g
Hydrolyzable chloride	≤0.02 %
Inorganic chlorine	≤50 mg/kg
Moisture	≤0.10 %
Starting evaluation addition	15–35 parts per 100 parts epoxy resin

Supply specifications follow the local 2026 ZXCHEM TDS and apply to this commercial grade. Test the complete formulation for the intended application.

Typical Properties

Property	Typical Value
Molecular formula	C ₁₁ H ₂₀ O ₄
Molecular weight	216.28 g/mol

Applications

Coatings, flooring and adhesives: Reactive diluent for selected epoxy formulations. Evaluate uncured viscosity, cure stoichiometry, adhesion, flexibility and service conditions.

Casting and impregnation: Low-viscosity component for selected casting and impregnation systems. Test flow, entrained air, pot life and complete-cure properties.

Composite winding and textile treatment: Reactive component for selected fibre and textile systems. Assess wetting, reaction conversion and mechanical and ageing requirements.

Packaging / Storage

Item	Information
Packing	20 kg / 200 kg drums / 1,000 kg IBC
Storage	Keep tightly closed in a cool, dry, ventilated area away from sunlight and heat. Separate from oxidizers, strong acids and uncontrolled contact with curing agents.
Handling	Use controlled transfer and local ventilation where mist can form. Wear compatible chemical-resistant gloves, splash goggles and protective clothing; avoid contact with uncured epoxy liquid.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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