

JEFFAMINE® EDR-148 amine is a symmetrical, highly reactive unhindered polyetheramine which can be used as amine in epoxy hardeners, as a molecule for development of high-purity intermediates and as a monomer in polyamide applications.

BENEFITS

- **Low viscosity** – Used as a reactive diluent in epoxy formulations
- **High purity** – Suitable as a molecule for synthesis of high-purity chemicals / intermediates
- **High reactivity** – Provides fast cure in epoxy adhesives
- **Flexible and hydrophilic** – Used as a monomer in polyamide applications instead of ethylene amines
- **Thermal shock resistant** – Suitable for epoxy electronic encapsulation, increasing life cycle of devices
- **EHS profile** – Not listed as a substance of very high concern



TYPICAL PROPERTIES

- **Color (Pt-Co)** : 50 max.
- **AHEW** : +/- 37 g/eq
- **Total amine content** : min 12.7 meq/g
- **Water content** : 0.35% max.

FORMULATION GUIDE

Reactivity at 40°C

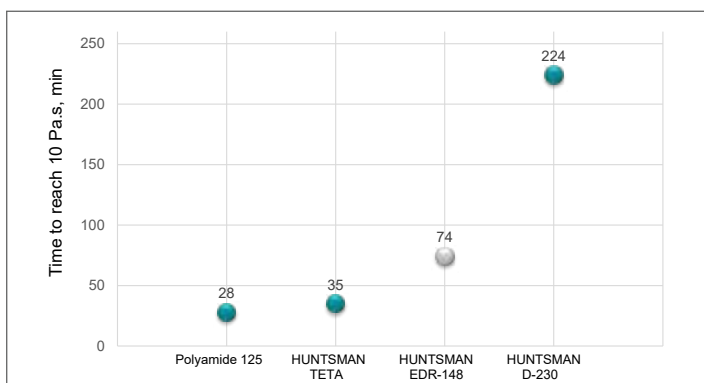


Figure 1:

Reactivity of JEFFAMINE® EDR-148 amine versus other amines cured with standard epoxy resin. Rheometer (1 mm layer, shear rate 1/15 s)

Glass Transition Temperature (Tg)

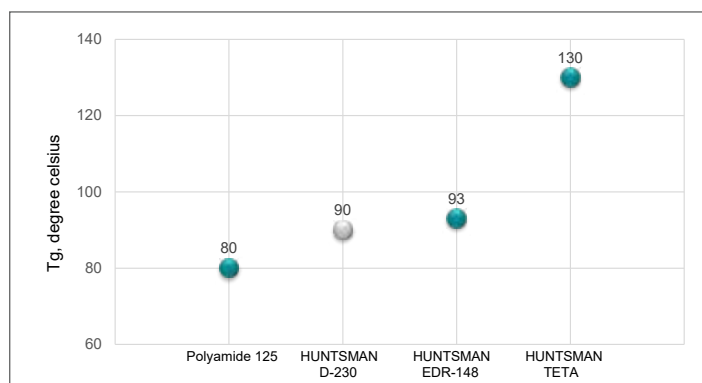


Figure 2:

Tg of JEFFAMINE® EDR-148 amine versus other amines, fully cured with standard epoxy resin

JEFFAMINE® EDR-148 AMINE

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DIRECTIONS FOR USE

For additional information on the physical properties, hazards, protective measures, and safe handling of this product, consult the Safety Data Sheet prior to use of this product.

STORAGE & HANDLING

JEFFAMINE® EDR-148 amine may be stored under air at ambient temperatures for extended periods. A nitrogen blanket is suggested for all storage, however, to reduce the effect of accidental exposure to high temperatures and to reduce the absorption of atmospheric moisture and carbon dioxide. It should be noted that pronounced discoloration is likely to occur at temperatures above 140°F (60°C), whatever the gaseous pad.

Cleaning of lines and equipment containing JEFFAMINE® EDR-148 amine can be accomplished using warm water and steam. In the event of spillage of this product, the area may be flushed with water. The proper method for disposal of waste material is by incineration with strict observance of all federal, state, and local regulations.



Materials of Construction

At temperatures of 75-100°F (34-38°C)

Tanks	Carbon steel
Lines, vales	Carbon steel
Pumps	Carbon steel
Heat exchange surfaces	Stainless steel
Hoses	Stainless steel, polythylene, polypropylene, and TEFLON® fluoropolymers
Gaskets, packing	Polypropylene or TEFLON® fluoropolymers (Elastomers such as neoprene, Buna N, and VITON® fluoropolymers should be avoided)
Atmosphere	Nitrogen or dry air

At temperatures above 100°F (38°C)

Tanks	Stainless steel or aluminum
Lines, vales	Stainless steel
Pumps	Stainless steel or Carpenter 20 equivalent
Atmosphere	Nitrogen

For more information, contact your local Huntsman representative. www.huntsman.com

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