

Araldite® DY-E#**Monofunctional, aliphatic, reactive diluent for epoxy resins**

Applications Can be mixed with unmodified bisphenol-A or bisphenol-A/F epoxy resins to formulate low-viscosity epoxy resins for solvent-free coatings, flooring screeds and mastics.

Araldite DY-E should be used when coatings come into contact with dry foodstuffs (FDA approval). A further advantage of this diluent is its low hazard potential in terms of industrial hygiene; it is better than any other reactive diluent in this respect.

Properties Reactive diluents have low viscosity owing to their low molecular weight. Their vapour pressure is higher and their physiological effectiveness greater than that of unmodified epoxy resins.

The use of Araldite DY-E in surface technologies has the following effects, according to the amount included:

- a very clear reduction in viscosity and reactivity
- uniformly good film surface quality (partly dependent on the hardener)
- a clear improvement in processability
- a moderate to good increase in flexibility
- a reduction in resistance to hot water and to chemicals.

Key data**Specified key data**

Aspect (visual)	clear liquid	
Colour (Gardner, ISO 4630)	≤ 2	
Epoxy index (ISO 3001)	3.15 - 3.60	[Eq/kg]
Epoxy equivalent (ISO 3001)	278 - 317	[g/Eq]
Viscosity at 25 °C (Rotary viscosity, ISO 3219)	4 - 12	[mPa s]

Specified key data are individually checked throughout and guaranteed.

Typical key data

Medium epoxy equivalent composition (ISO 3001)	313	[g/Eq]
Vapour pressure at 20 °C (balance)	0.013	[Pa]
Density at 20 °C (ISO 1675)	0.89	[g/cm ³]
Flash point (Pensky Martens, ISO 2719)	~ 155	[°C]
As-supplied form	liquid	
Odour	slight	
Shelf life (at storage temperature between 2 - 40 °C) (see expiry date on original container)	several years	
Hazardous decomposition products (when disposed of in fire)	carbon monoxide, carbon dioxide, nitrogen oxides and other toxic gases and vapours	
Disposal	regular procedures approved by local authorities	

Typical key data are spot checked; the values are typical for the product and are indicated for information only. The values are not guaranteed.

In addition to the brand name product denomination may show different appendices, which allows us to differentiate between our production sites: e.g. BD = Germany, US = United States, IN = India, Cl = China, etc. These appendices are in use on packaging, transport and invoicing documents. Generally the same specifications apply for all versions. Please address any additional need for clarification to the appropriate Huntsman contact.

Storage	Araldite DY-E should be stored in a dry place, preferably in the sealed original container, at temperatures between 2 and 40 °C. The product should not be stored exposed to direct sunlight.
Handling precautions	Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets and the brochure "Hygienic precautions for handling plastics products" .
Note	Araldite® is a registered trademark of Huntsman LLC or an affiliate thereof.

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