

Advanced Materials

Araldite[®] GZ 471 X-75, Araldite[®] GZ 571 KX-75 and Araldite[®] GZ 571 T-75

SOLID "TYPE 1" EPOXY RESIN SOLUTIONS

GENERAL :

Araldite[®] GZ 471 X-75, Araldite[®] GZ 571 KX-75 and Araldite[®] GZ 571 T-75 are solution-based epoxy resins.

CHEMICAL DESCRIPTION :

Araldite[®] GZ 471 and Araldite[®] GZ 571 are solid, unmodified bisphenol A epoxy resin solutions based on the solid epoxy resin Araldite[®] GT 7071.

APPLICATIONS :

- Maintenance coatings
- Marine finishes
- Tank linings
- Primers
- Flooring
- Civil engineering
- Pipe coatings

ADVANTAGES :

- Excellent adhesion
- Excellent flow properties
- Superior wetting
- Excellent batch-to-batch uniformity
- Narrow, rigid specifications
- Good chemical resistance
- Good compatibility with solvents and hardeners
- FDA sanctioned (CFR 179.300)

FDA STATUS :

Cured coatings made with this resin and other approval components meet the requirements of the Food & Drug Administration regulation 21 CFR 175.300, for the safe use as a food-contact surface under the conditions described in this section. Solvents are not covered and must be removed in the final coating.

TYPICAL PROPERTIES* :

	GZ 471 X-75	GZ 571 KX-75	GZ 571 T-75
Visual Appearance	-----Clear, no contamination-----		
Color, Gardner, max	3	3	5
Epoxy Value, eq./kg, (on 100% solids)	1.89 – 2.22	1.89 – 2.22	1.89 – 2.22
Epoxy Equivalent, eq./kg, (on 100% solids)	450 – 530	450 – 530	450 – 530
Viscosity @ 25°C (77°F), MPa s (cPs)	4,500 – 9,000	2,500 – 6,000	2,500 – 6,000
Density @ 25°C (77°C), g/cm ³ (lb/gal.)	1.08 (9.0)	1.08 (9.0)	1.09 (9.1)
Solids content, wt %	75 ± 1	75 ± 1	75 ± 1
Solvent, total	Xylene	65% MIBK 35% Xylene	Toluene
Flash Point, Closed Cup, °C (°F)	31 (88)	29 (84)	9 (49)

* Typical properties are based on Huntsman's test methods. Copies are available upon request.

FORMULATIONS :

Araldite® GZ 471 and Araldite® GZ 571 are 75% solids by weight of Araldite® GT 7071 in a variety of solvents. The solvent code designation is as follows:

X = Xylene
K = Methyl isobutyl ketone (MIBK)
T = Toluene

These resins solutions are very useful in many solvent-containing formulations. These products are compatible with most solvents and are characterized by clarity and light colors.

Araldite® GZ 471 and Araldite® GZ 571 solutions may also be used to provide one-package, heat cured coatings with amino, phenolic or acrylic resins used as co-reacting resins.

PACKAGING & STORAGE :

Araldite® GZ 471 and Araldite® GZ 571 are supplied in 475 pound steel drums. These materials should be stored at room temperature in the original sealed container (actual expiration date appears on the label).

HANDLING/SAFETY PRECAUTIONS :

**Warning! Flammable. May cause irritation and sensitization.
Exposure may affect central nervous system.**

Keep away from heat, sparks and flames.
Ground metal containers during transfer of liquid.
Avoid contact with eyes, skin and clothing.
Use only with adequate ventilation.
Promptly remove contaminated clothing and wash before reuse.

**Read Material Safety Data Sheet Before Using.
For Industrial Use Only.**

FIRST AID :**In case of contact with:**

Eyes : Immediately flush with water for at least 15 minutes.

Skin : Promptly wash thoroughly with mild soap and water.

Inhalation : Remove to fresh air. Give oxygen if breathing is difficult.

Ingestion : Get medical attention immediately. Do not induce vomiting.

IMPORTANT LEGAL NOTICE

Huntsman Advanced Materials warrants only that its products meet the specifications agreed with the user. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications.

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