



**4,4' Diamino Diphenyl Sulfone
(Dapsone-Tech)
Technical Data Sheet**

Chemical Identity

Chemical Name : 4,4'Diamino Diphenyl Sulfone
Synonyms : Dapsone, DDS, DADPS, 4,4' Sulfonyldianiline
CAS NO. : 80-08-0
EINECS : 2012484
Molecular Weight : 248.31
Empirical Formula : C₁₂H₁₂N₂O₂S

Physical and Chemical Properties

Appearance : White Crystalline Powder
Odor : Odorless
Purity : Min. 99.5%
Density : Apparent Density at 20°C is appx. 300 Kg/m³ (DIN 53466)
pH (10g/l) at 20°C : 5.5 to 7.5
Solubility : Exceedingly soluble in Alcohol, Acetone and MEK

Test Description	Test Method	Unit Of Measure	Normal Value
Melting Range	BP 93	°C	176 to179
Ash Content	BP 93	%	<0.1
Moisture	BP 93	%	<0.1
Assay (Dry Basis)	BP 93	%	99 to 100
Particle Size Analysis	Sympatec HELOS (H0899)	µm	1.80 to 350



Description

Dapsone-Tech is an aromatic hardener for di-glycidyl or tetra glycidyl ether resins which initiates resin homopolymerization at elevated temperature. Generally, following proportion of constituents are used for casting applications:

Di-glycidyl Ether Resin	100 parts by Wt.
Dapsone Tech	36 parts by Wt.
BF ₃ MEA	0.5 – 1.0 parts by Wt.

Depending upon end use of the resin matrix achieved, various combinations of these constituents by weight can be used to get the desired results. High T_g and HDT also can be achieved by using tetra glycidyl ether resin with 44 parts by weight of Dapsone-Tech and without the use of accelerator. Post cure heating at higher temperature also helps.

Applications

Glycidyl ether resin system cured with Dapsone-Tech imparts excellent thermal, electrical, mechanical and chemical properties to cured resin matrix. Hence, Dapsone-Tech is widely used in manufacture of

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| -Adhesives | -Castings |
| -Printed circuit Boards | -High Temperature laminates |
| -Prepegs | -Advanced Composites |
| -High Performance Coatings | |

Packing

Dapsone-Tech is packed in double poly liner HDPE bags, each weighing 25 Kg net. Each pallet consists of 20 bags (500 Kg net wt.).

Handling and Storage

Avoid dust formation and ensure good ventilation-suction in the workplace. Protect against electrostatic charges. Store in a cool and dry environment, well-sealed.

Please refer to Material Safety Data Sheet for information on safety and toxicity.