

### Glassbond Sauereisen Electrical Cement No.DW-30

#### Characteristics

- Insulates electricity
- Fireproof refractory
- Withstands temperatures to 900°F (482°C)
- Heat conductive and thermal shock resistant
- Resists water and most solvents
- Safe to use/non-toxic
- Strong, porcelain-like body
- Odourless
- Cures by chemical set even in confined areas.
- Non shrinking.

#### Recommended for:

Appliances  
Elements  
Embedding  
Heaters  
Insulating  
Cutlery

#### Description

Electrical cement No.DW-30 is an inorganic, chemically-setting, magnesium oxide base material which develops a slight expansion while hardening into a porcelain-like body. Since No. DW-30 is dimensionally stable from -100°F to +900°F and will not corrode resistance wires at elevated temperatures, it is recommended for embedding heating elements and potting resistors.

The stable nature of No.DW-30 allows for application within explosion proof fittings. Other recommended uses are cementing knife blades into plastic, ceramic, wood or metal handles, weighting candlesticks or similar cavities, and sealing set screws. The product is supplied in powder form and is easily mixed with water to apply.

#### Physical properties

Coefficient of thermal expansion	4.7 x10 <sup>-6</sup> /F° (8.46x10 <sup>-6</sup> /C°)
Colour	Tan
Compressive strength @ 7 days	4,500 psi (316 kg/cm <sup>2</sup> )
Density	120pcf (2gm/cm <sup>3</sup> )
Maximum service temperature	900°F (482°C)
Mixing ratio (Powder:water, by weight)	5:1
Tensile strength	300psi (21 kg/cm)

Physical properties were determined on specimens prepared under laboratory conditions using applicable ASTM procedures. Actual field conditions may vary and yield different results; therefore, data are subject to reasonable deviation. Data should not be used for specification purposes.



Glassbond (NW) Ltd., West Side Industrial Estate,  
Jackson Street, St Helens, Merseyside, WA9 3AT England  
Tel: +44 (0)1744 730334 Fax: +44 (0)1744 451661  
Email: [Info@glassbond.co.uk](mailto:Info@glassbond.co.uk) Website: [www.glassbond.co.uk](http://www.glassbond.co.uk)

Directors: DW Denton, PJ Randell (Bsc), MR Pharm, RJ Randell Consultative Director: DJ Randell (M.I.M)  
Glassbond (NW) Ltd. Registered Office: West Side Industrial Estate. Registered in England No. 1378679

### Application/Instructions

No. DW-30 Powder should be thoroughly remixed before using. The recommended mix ratio is 5 parts No.DW-30 powder and 1 part potable water. Place warm water into a clean mixing container and gradually add the No.DW-30 powder while mixing. Continue mixing until a smooth, uniform consistency is obtained. Mixing may be done with a slow-speed mixer or by hand with a spatula.

Porous substrates may require dampening with Thinning liquid No.14 before applying the mixed cement. The cement may be applied by pouring, casting or by mechanical dispenser.

### Setting/Curing

No. DW-30 hardens with an internal chemical-setting action in 18 to 24 hours at ambient temperature. Working time of No. DW-30 when powder is mixed with water is approximately 30 minutes at 21°C. If it is desired to accelerate the cure, oven drying at 82°C can be used. Avoid steaming while drying. If the cement will be exposed to elevated temperatures, contact Glassbond for appropriate drying schedule recommendations.

If high humidity resistance is required and it is impractical to fire cement, a moisture-resistant lacquer or silicone coating should be applied to the exposed surfaces.

### Packaging

This material is supplied in various types and sizes of containers. See price list for details.

### Shelf Life

No.DW-30 has a shelf life of twelve (12) months when stored in un-opened, tightly sealed containers in a dry location at 21°C. If there is doubt as to the quality of the material, consult Glassbond.

### Caution

Consult the Material Safety Data Sheets and container label Caution Statements for any hazards in handling this material.

### Warranty

We warrant that our goods will conform to the description contained in the order and that we have good title to all goods sold. WE GIVE NO WARRANTY, WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE OR OTHERWISE, EXPRESS OR IMPLIED, OTHER THAN AS EXPRESSLY SET FORTH HEREIN. Users shall determine the suitability of the product for intended application before using.

Manufactured under licence from Sauereisen Pittsburgh PA.



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Jackson Street, St Helens, Merseyside, WA9 3AT England  
Tel: +44 (0)1744 730334 Fax: +44 (0)1744 451661  
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