

## TECHNICAL DATA SHEET

## BORON-FREE SPRAY-UP ROVING

### Product Introduction

The boron-free glass fiber provides higher mechanical properties (modulus of elasticity) than E glass, superior chemical corrosion resistance, especially very similar acid resistance with traditional ECR glass. Without any content of  $B_2O_3$  and  $F_2$ , Boron-free glass is environmental-friendly throughout all its production process. G1-AB is Boron-free roving designed for use in spray-up operations using standard or filled resin systems. This includes applications in tub/showers, FRP building materials, heavy trucks and utility boxes. Its excellent glass lay down makes it especially suitable for vertical surface spray-up. Roving doffs are square-edged, cylindrical packages which are firmly and evenly wound and have a constant traverse length. The packages are designed to provide a smooth run out, and their geometry is controlled to maintain the desired run out performance.

### Product Description

All G1-AB gun rovings are manufactured to meet ISO 9001 standards. Besides, these products have obtained the quality certification of Norway Boat code.

G1-AB gun roving is produced from a collection of continuous glass filaments gathered, without mechanical twisting, into a single bundle. The filaments, which make up the bundles, are bonded together with a special size. Multiple bundles are then pulled together to form a strand. The strand is wound into a tubeless package that is ready for use in customer applications.

### Packaging

Pallet dimensions:

Pallet height, cm (in) 94 (37)

Pallet length, cm (in) 112 (44)

### Features and Product Benefits

- Easy chopping
- No fuzz
- Easy rolling and air release
- Excellent performance on vertical parts
- No static electricity
- Flat lay down and uniform dispersion
- Excellent mechanical properties

Pallet width, cm (in) 112 (44)

Number of layers: 3 or 4

48-roll pallet weight, kg (lb) 912 (2010)

64-roll pallet weight, kg (lb) 1216 (2680)

Doff dimensions:

Doff height, cm (in) 26 (10)

Doff weight, kg (lb) 19 (42)

Doff diameter, cm (in) 26 (10)

Doffs/layer 16

Doffs/pallet 48 & 64

Doffs are wrapped in plastic bags, then packed in individual cardboard boxes or bulk packed. All pallets have ends that are spliced together. One-, two-, four-end run-outs are available depending on specific customer requirements.

### Storage

Unless otherwise specified, it is recommended to store glass fiber products in a cool, dry area. Temperature should not exceed 35°C (95°F) and the relative humidity should be kept below 75%. Glass roving products must remain in packaging material until just prior to their use. If these conditions are respected, the glass fiber product should not undergo significant changes when stored for extended periods of time.

### Stacking

To ensure safety and avoid damage to the product, skids should not be stacked more than two high.



## Product Data

ID Number	Linear Density (NOM TEX)	Yield (NOM yds/lb)	% Organic Solid (LOI)	Filament Diameter (μm)	% Moisture Content	Compatible Resin
G1-240-AB	2400	207	1.05 ± 0.20	12 – 13	≤ 0.20	Polyester
G1-310-AB	3100	165	1.05 ± 0.20	12 – 13	≤ 0.20	Polyester

## Disclaimer of Liability

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