

## Phenolic cotton cloth laminate

### VOLTIS® HGW RO 42

VOLTIS® HGW RO 42 is similar to the following international standard:  
IEC 61212 PF CC 42

#### Composition

VOLTIS® HGW RO 42 is a round moulded phenolic cotton fabric rod.

#### Application

VOLTIS® HGW RO 42 is used if good mechanical properties are required.

#### Availability

Outer diameter: 8/10/13 mm, Ø20 mm in 5 mm steps up to 75 mm, 85, 92 mm  
Length: Ø 8-13 mm: 520 mm  
          Ø ≥20 mm: 820 mm  
Tolerances: acc. IEC 61212  
Surface: as produced or ground.

All information given here is based on currently available facts and on the results of experiments performed with all due care in our laboratories. It does not in any way reduce the responsibility of the user for carrying out further tests in order to ensure successful processing and use in specific applications.

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### TECHNICAL DATA

| Properties   | Norm      | Unit               | Value                 |
|--|-----------|--------------------|-----------------------|
| Density  | IEC 61212 | g/cm <sup>3</sup>  | approx. 1,3           |
| Flexural strength perpendicular to laminations at 23°C                     | IEC 61212 | MPa                | min.100               |
| Compressive strength axial   | IEC 61212 | MPa                | min 80                |
| Breakdown voltage (1' proof test) at 90°C in oil parallel to laminations*) | IEC 61212 | kV                 | 5                     |
| Insulation resistance after immersion in water                             | IEC 61212 | Ω                  | min 5x10 <sup>5</sup> |
| Thermal endurance  | IEC 61212 | T.I.               | 120                   |
| Water absorption   | IEC 61212 | mg/cm <sup>2</sup> | max 8                 |

\*) after conditioning 4 h/70°C