



PHENOLIC BAKELITE WOVEN COTTON CLOTH TUBE HGW 2085

V Phenolic woven cotton fabric HGW 2085 consists of a base of cotton cloth layers impregnated with phenolic resin. The material can be used for applications up to 120°C. A combination of a temperature resistant phenolic resin and a woven cotton fabric, HGW 2085 displays excellent wear resistance and weatherability. Examples of typical usage are applications exposed to high mechanical loads such as bushings, guide rings for hydraulic, gliding bearings, etc.

- *Compliant with: DIN 7735-2 / NEMA – HGW 2085, IEC – PFCC22*
- *Good resistance to water, oils and greases as lubricants*
- *Very good weatherability and resistance to salt water*
- *High wear resistance*
- *Good temperature properties*
- *Good mechanical machining properties*

PRODUCT INFORMATION

Phenolic Bakelite woven cotton fabric HGW 2085 is made from a base cotton cloth layers bonded with phenolic resin. The material can be used for applications up to 120°C. A combination of temperature resistant phenolic resin and woven cotton fabric, HGW 2085 displays excellent wear resistance and weatherability.

Applications

HGW 2085 is used widely across a range of applications, primarily where high mechanical resistance properties are required such as bushings, guide rings for hydraulic, gliding bearings, etc. HGW 2085 is highly suitable for use when thermoplastics cannot handle the high pressure that the application requires. The material may be lubricated with water, oil or grease if necessary. *

* lubricant compatibility with HGW 2085 should be verified with the supplier of the relevant lubricant.

Properties

- Good mechanical properties
- High wear resistance
- Very good weatherability and resistance against salt water
- Heat resistance at 120°C
- Good chemical resistance
- Good machining properties

Composition

- Consists of woven cotton cloth fabric laminated with a phenolic resin that is coreless wound around a rod and subsequently cured under high temperature and high mechanical pressure in accordance with defined industrial standards.

Colour

- Brown

Dimensions

- Wall thickness from 2 mm*
- Internal diameter from 5.2 mm*
- Standard tube length for internal diameter 5.2 – 25 mm nominal 650 mm
- Standard tube length for internal diameter from 25 mm and above nominal 1350 mm
- Bakelite woven cotton cloth tube cut and machined according to specification is available on request, readily milled, lathed or drilled

* Tube sold on request, usually non stock order item

Packaging

- Standard dimensions sold individually
Usually non stock order item

Product information for which Carbex bears no responsibility is provided by the manufacturer.





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Technical data

Phenolic Bakelite woven cotton cloth tube complies with international standards: DIN 7735 - HGW2085, EN 61212 - PF CC 22

Properties

| Mechanical | Value | Unit |
|---|--------------|-------------------|
| Density | 1.15 - 1.42 | g/cm ³ |
| Flexural strength perpendicular | 80 | N/mm ² |
| Compressive strength perpendicular | 40 | N/mm ² |
| Thermal | | |
| Thermal endurance (Temperature Index) | 120 | T.I |
| Working temperature Class | 120 | °C |
| Electrica | | |
| Dielectric strength at 90°C in oil perpendicular to laminations | 2 | kV/mm |
| Dielectric strength at 90°C in oil parallel to laminations | 15 | kV/20 mm |

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