

VOLTIS® Hgw TU 21

Composition

VOLTIS® Hgw TU 21 is a round rolled phenolic-cotton cloth tube of the type PF CC 21 according IEC 61212 and Hgw 2086 according DIN 7735.

Application

VOLTIS® Hgw TU 21 is used if good mechanical properties are required. It is distinguished by good machinability, high abrasion resistance as well as good resistance against water, oils and lubricants. For this type a fine weaved cotton cloth is used.

Technical Data

Properties	Testmethod	Unit	Min. Value
Density	ISO 1183/A	g/cm ³	approx. 1,3
Flexural strength perpendicular to laminations at 23°C	ISO 178	MPa	90
Compressive strength axial	ISO 604	MPa	120
Cohesion between layers	IEC 61212	MPa	90
Breakdown voltage (1' proof test) at 90°C in oil parallel to laminations ¹⁾	IEC243	kV	15
Electric strength (1' proof test) at 90°C in oil perpendicular to laminations (thickness 3,0 mm) ¹⁾	IEC243	kV/mm	2,0
Insulation resistance after immersion in water	IEC 167	Ω	2.10 ⁷
Thermal endurance	IEC 216	T.I.	120
Water absorption	ISO 62 / 1	mg/cm ²	≤5

¹⁾ after conditioning 24h/23°C/50 % rel. humidity

Availability

inner diameter	length
8 – 12,5 mm	570 mm
10 – 16 mm	1000 mm
16,5 – 400 mm	1000 and 1200 mm

Wall thickness: minimum wall thickness depending on inner diameter
 Tolerances: according IEC 61212
 Surface: as produced or ground