

Tubes made of phenolic paper are used in the electro industry as high classed insulating material as well as construction material in the machine construction. This material is highly durable and nevertheless has a low price. Because of the production process we can also produce small quantities without any problem.

Structure: Paper Tubes consist of with phenolic resin impregnated paper-sheets. They are parallel winded on winding machines where the resin and fabric glues together under the influence of heat and pressure. At the following hardening process the layers get indissoluble. The finished tubes then get grinded and mechanically worked as the customer wishes.

| Type | DIN ISO EN 61212 | DIN 7735 |
|------|------------------|----------|
| 50 | PF CP 21 | Hp 2065 |
| 60 | PF CP 22 | Hp 2066 |
| 70 | PF CP 23 | Hp 2067 |

Normal size and tolerances:

| | |
|-------------------------|---|
| Inside diameter: | from \varnothing 2 mm to ca. \varnothing 850 mm, Special sizes on request |
| Wall thickness: | from 0,5 mm, depending of the diameter |
| Length: | from 500 mm to ca. 2100 mm depending on type and diameter |
| Tolerances: | according to EN 61212-3-1 or after agreement |

| Technical terms | Unit | Type 50 | Type 60 | Type 70 |
|-----------------------|-------------------|---------|-----------|---------|
| Compression, axial | MPa | 100 | 80 | 100 |
| Flexural strenght | MPa | 100 | 100 | 100 |
| Tensile strenght | MPa | 70 | 70 | 70 |
| Density | g/cm ³ | 1,1-1,2 | 1,01-1,15 | 1,1-1,2 |
| Temparature resitance | °C | 120 | 120 | 120 |
| Voltage, parallel | kV/25mm | 25 | 25 | 25 |
| Voltave, vertical | kV/3mm | 25 | 50 | 25 |

The above called specifications were made to the best of our knowledge. It is recommended to prove the material in case of doubt for special applications. All values are the minimum requirement.