

Date Generated: Monday 23rd of February 2026

B12F2 Product Data Sheet

B12F2 Commercial Grade Phenolic Cotton Laminate SRBF

Material Details

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Grade: | B12F2 |
| Description: | Phenolic Cotton. Low Cost Commercial Grade SRBF (Not manufactured by The Attwater Group) |
| Comments: | Developed as a low cost alternative to type B12. B12F2 is intended as a general purpose product where cosmetic appearance is not critical. It is generally manufactured to meet the requirements of BSEN60893-3-4-PFCC203. Also available in sheet size 2440 x 1220 by request. |
| Body Colour: | Sandy Brown |
| Cover Colour: | Sandy Brown |
| Finish: | Satin/Glossy |
| Size: | 1220 x 1220 Thickness Range: 0.4 - 150.0 |

Typical Applications

- Ball Race Cages
- Bolts and Screws
- Cams and Camfollowers
- Conveyor Wheels
- Cryogenic Resistance Components
- Gears - Coarse Tooth
- Gears - Medium Tooth
- Guide Plates and Star Wheels
- Heavy Duty Rollers
- Insulating Bushes Spacers Sleeves
- Insulating Handles
- Jigs and Fixtures
- Low Voltage Insulation
- Pipeline Insulation
- Piston Rings

- Pulleys and Sheaves
- Punched Components
- Rolling Mill Bearings
- Rotor Blades (compressor)
- Scraper Blades
- Slideways
- Thrust Washers
- Wear Resistant Components
- Welding Jigs

General Properties

| Property | Unit of measure | Typical Value |
|------------------|-----------------|---------------|
| Density | g/cm3 | 1.35 |
| Water Absorption | mg | 110 |

⌘ Where relevant, the flammability test method is used solely to control and monitor consistency of production. Under no conditions should the results be considered in relation to fire hazards under actual conditions of use.

Electrical Properties

| Property | Unit of measure | Typical Value |
|--------------------------------------------|-----------------|---------------|
| IR (24hrs Water Immersed) | G Ω | 0.01 |
| Electric Strength (Flat - 1.6mm thickness) | kV/mm | 1.5 |
| Breakdown Voltage | kV | 4.0 |

Mechanical Properties

| Property | Unit of measure | Typical Value |
|-------------------|-----------------|---------------|
| Flexural Strength | MPa | 115 |
| Tensile Strength | MPa | 68 |
| Impact (CHARPY) | kJ/m2 | 9 |

Disclaimer: The above values are based upon routine test data and do not form the basis of a supply contract. These products may be used in a diverse range of applications and whilst every effort is made to ensure the information in this data sheet is accurate, it must be stressed that it is the user's responsibility to ensure suitability for the intended end use.

Source: <https://www.attwater.com/products/b12f2/>