

NP50 Electrical Grade Cork is an industrial cork sheet used for making a variety of gaskets and seals. This cork is manufactured from pre-impregnated cork granules bound with a Neoprene rubber binder. It exhibits good compatibility with oils and fuels and has good flexibility and compressibility for making gaskets that create good, long lasting seals.



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Manufactured by Amorim Cork Composite in Portugal, NP50 Cork is widely used by the automotive, marine, industrial and electrical industries around the world. It can be cut precisely, has good tensile strength and will withstand continuous exposure to temperatures between -30°C and +120°C.

### Applications

- Automotive gaskets
- Marine gaskets
- Industrial cork gaskets
- Radiator gaskets and seals
- Cable and junction box seals
- Oil gauge seals and gaskets
- Valve gaskets and seals
- Anti-vibration mats and pads

### Technical Details

Colour	Brown
Temperature Range	-30°C to 120°C
Binder Type	Neoprene / Polychloroprene Elastomer
Compressibility @ 2.76 N/mm <sup>2</sup>	25 to 35% (ASTM F-36)
Recovery @ 2.76 N/mm <sup>2</sup>	75% (ASTM F-36)
Density	825 kg/m <sup>3</sup> C (±9%) (ASTM F-1315)
Hardness	70 Shore A (±10) (ASTM D-2240)
Tensile Strength (Minimum)	1.7 MPa (ASTM F-152)
Flexibility (Original F5)	No Cracks (ASTM F-1447)

### Chemical and Environmental Resistance

Used in sealing oil, fuels, water and other industrial fluids. NP50 is RoHS compliant for hazardous substances and contains no heavy metals or Polycyclic Aromatic Hydrocarbons.

#### Important

The values listed here and the information presented should not be treated as a substitute for specific technical advice. We cannot warrant the products performance or suitability for particular applications.

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## Aging Data

Volume change in material after immersion in...

	22 Hours	70 Hours	
ASTM Oil No. 1 @ 100°C	--	0.5%	ASTM F-146
IRM 903 Oil @ 100°C	--	+23%	ASTM F-146
ASTM Fuel A @ 23°C	+3.8%	--	ASTM F-146

### Heat Ageing Data in Air @ 100°C

	70 Hours	168 Hours	
Hardness Change	+9	+15	ASTM D-2240
Change in Flexibility	F5	F9	ASTM F-147

## Available Sizes, Forms and Styles

NP50 Electrical Grade Cork Sheet is available in a selection of thicknesses and sheet sizes.

### Available Thicknesses

- 1.5mm
- 3mm
- 4.8mm
- 6.4mm
- 8mm
- 9.5mm

### Standard Sheet Sizes

All of the above thicknesses are available in each of the following sheet sizes:

- 250mm wide x 310mm long
- 510mm wide x 1270mm long
- 1040mm wide x 1270mm long

### Custom Sizes

If the size you require for your job isn't listed here please don't hesitate to let us know. Other sizes can be made to order and laminating sheets to achieve different thicknesses is a possibility when it's required.

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