



## NP50 Cork Sheet



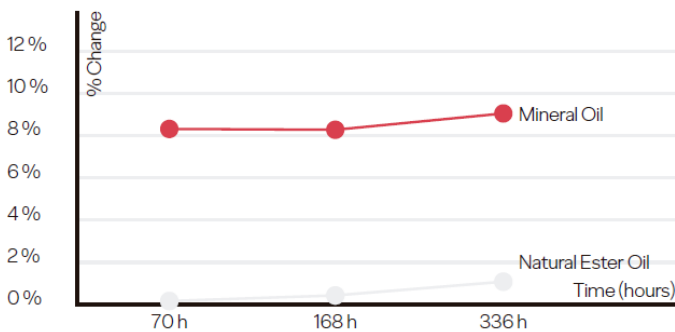
NP50 Cork is manufactured from high quality cork granules bound with a special Nitrile elastomer. This grade of cork is commonly used in the electrical and mechanical industries due to it being very conformable and resistant to most petroleum based products and transformer fluids. NP50 is commonly used to seal distorted flanges, hatches and lids, transformers, oil pans as well as LV & HV bushings. It does not contain any Asbestos, Heavy Metals (Pb, Cd, Hg and Cr (VI)) or Polycyclic Aromatic Hydrocarbons (PAH).

### Technical Data:

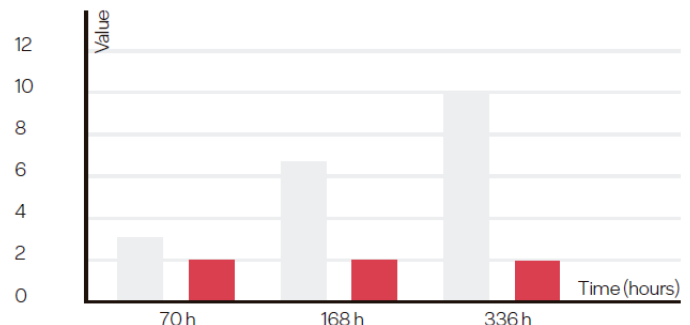
Property:	Typical Value:
Binder	Nitrile
Temperature Range	-40°C to 125°C
Hardness, ASTM D2240	70 Shore A ±10
Density, ASTM F1315	> 700 kg/m <sup>3</sup>
Compressive Strength	> 70 MPa
Stress Range	2.5 to 15 MPa
Tensile Strength, ASTM F152	> 1.72 MPa
Mineral Oil	Recommended
Natural Ester Oil	Recommended
Silicone Oil	Recommended
SFG Gas	Suitable

ASTM D3455-Test Methods for Compatibility of Construction Materials with Electrical Insulating Oil of Petroleum origin.  
 ASTM D5282-Test Methods for Compatibility of Construction Materials with Silicone Fluid used for Electrical Insulation.

### Volume Change at 125°C, ASTM F146:



### Heat Aging Data, Air at 125°C:



(\*) Properties change 504 h @ 125 °C:

Hardness change (shore A)	-2
Flexibility	3

(?) ASTM D2240  
 (?) ASTM F147

■ Hardness Change (Shore A)  
 ■ Flexibility

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#### Important

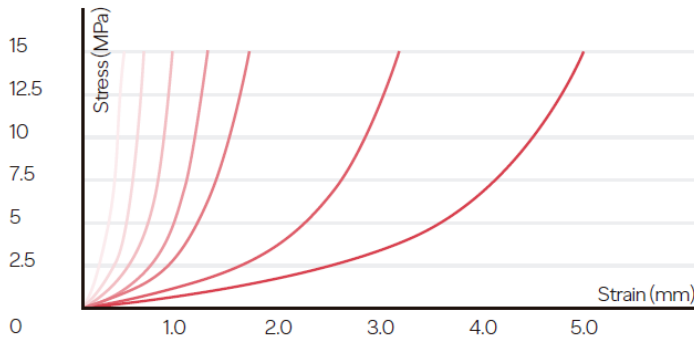
This information should not be treated as a substitute for specific technical advice. AG does not offer such advice and cannot warrant the performance or suitability of products for particular applications.



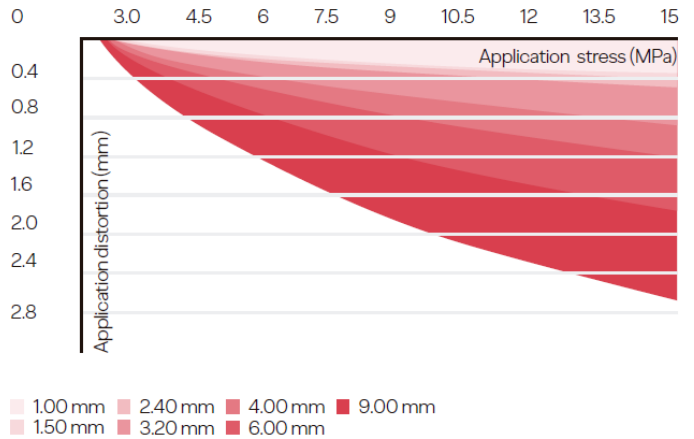
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### Sealing Stress:



### System Distortion:



A Load Deflection (LD) curve is a Stress (MPa) vs. Strain (mm) curve. It is the load required to compress a material at a defined thickness for a determined deflection. Its commonly used when making material selections to meet engineering requirements such as flange load or controlled compression applications.

Conformability is the ability of a gasket material to conform to flange surface roughness and distortion. At a given sealing stress, a corresponding maximum allowable flange distortion assures that a “positive seal” is guaranteed for a defined material thickness. By intersecting the hardware distortion and the respective sealing stress, a suggested material thickness is selected. It is always recommended to validate the material thickness in your system due to unexpected flange distortion behaviour.

### Availability:

NP50 Cork is available in 1270mm x 1040mm sheets in thicknesses ranging from 1.5mm through to 12.7mm. 1020mm wide rolls are also available in thicknesses ranging from 0.8mm through to 9.5mm. Slit rolls and custom components can also be cut to your specifications.

Associated Gaskets stock a large range of cork materials as well as thermal insulation and specialised sealing and electrical products. For information on these products and many more, please visit our website or call your nearest AG branch.

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