

# MOR Rubberized Cork Sheets & Gaskets

Cork when compressed there is no lateral spread and when load is released it has excellent recovery. On the other hand Rubber has excellent flowing characteristics and ability to withstand high vacuum. Thus the combination yields an excellent gasketing material which is compressibility of cork combined with the resilience and mechanical strength of rubber - Rubberized Cork.

Cork with any of rubber like natural, nitrile, Neoprene, silicone & EPDM

## Attributes of Rubberized Cork

1. Very resilient to oils
2. Excellent thermal and sound insulation properties.
3. Low compression set
4. Substitute for Woolen Felt, Plastics & ordinary rubber.

It can be used as gaskets for oil chambers, valve covers, sumps, pumps, electrical industries like transformers, switchgears, immersed starters, etc.

Can be used until 120°C.

## Sheet sizes

- 610mm x 915mm, 1M x 1M, 2M x 2M, 1.2M x 2.4M.

## Thickness:

- 1.0mm, 1.6mm, 2.4mm, 3.2mm, 4.8mm, 6.0mm.
- Other thicknesses up to 16mm can be produced

## Hardness:

- 50 to 80 IHRD

## Specifications:

- IS-4253 Part II (2008) and BS



**Plain Cork Sheets:**

- Cork cells are made with walls of a strong resin substance that is flexible but will not stretch. Trapped inside each cell is a pocket of air (90% by volume). Under pressure the air is squeezed which maintains the counter pressure until force is released.
- 
- Cork sheets are mainly used as linings of bottle stoppers, glass polishing in the glass industry, clutch facings, brake liners and anti-vibration slabs & foundation blocks.

**Sheet sizes :**

- 2' x 3'
- 3' x 3'

**Thickness:**

- 1.0mm - 75mm can be produced.

**Specifications:**

- IS-4253 Part I (2008) and BS



No.	Physical Properties	Test Procedure	
1.	Hardness Shore -A (IRHD)	65 to 75	ASTM D1415
2.	Tensile Strength (mpa)	3.0 Min.	ASTM F152
3.	Compressibility % @ 2.76 MPA	25 - 35 %	ASTM F36
4.	Recovery % (Min)	80	ASTM F36
5.	Percentage Volume Change After Immersion		
6.	ASTM OIL NO. 1 (AT 110 DEG. C. 71 HOURS)	-5 to +10	ASTM F146
7.	ASTM OIL NO. 3 OR IRM 903 (AT 110 DEG. C. 72 HOURS)	-5 to +10	ASTM F146
8.	ASTM FUEL A (AT AMBIENT TEMPERATURE. 22 HOURS) BS 148 Transformer Oil, 15 days @ 110°C	0 to +10 +8	ASTM F146
9.	Scalability of Gasket Material	Zero Leak Rate (ML/H)	ASTM F37
10.	Flexibility When bent Around a 4 x Gasket Thickness DIA, Mandrel No Cracks The Gasket Material Shall Remain Flexible Down To - 35°C		ASTM F147
11.	Maximum temperature can withstand	125 Deg. C.	



RUBBER CORK			
MECHANICAL PROPERTIES	ASTM	UNIT	VALUE
Density	D 927	g/cm3	00.90-1.00
Hardness	D 2240	Shore A	75
Tensile Strength	D 412	MPA	Min. 3.0
Elongation	D 412	%	Min. 60
Minimum Stress Value	-	MPA	6.0
Maximum Stress Value	-	MPA	23.0
Compressive Strength	-	MPA	75
OPERATING TEMPERATURE RANGE			
Minimum Operating Range	-	°C	-35° C
Maximum Operating Range	-	°C	125° C
FLUID CONTACT			
Mineral Oil	-	-	Suitable
Natural Ester Oil	-	-	Suitable
Ethanol	-	-	Suitable
Silicone Oil	-	-	Suitable
Biodiesel	-	-	Suitable
SF6 Gas	-	-	Suitable