

## **Description** Tico S is a high performance machinery mounting material. It matches today's fast changing manufacturing environment, where ease of machine mounting and flexibility of plant layout are prime factors.

Tico S is manufactured from a blend of carefully selected cork particles and polychloroprene/ acrylonitrile elastomers.

This Technical Information Sheet provides the user with the following information:

- Dimensions
- Typical Properties
- · Pad Static deflection for a given load
- · Pad Natural frequency for a given load
- Isolation efficiency for given load and disturbing frequency

#### Dimensions

Code	Product	Standard Thickness (mm)		Standard Size (mm)
TICO S	Cork/Elastomer Pad	6 12.5 25		1200 x 50 1200 x 75 1200 x 100 1200 x 150 1200 x 600 1200 x 1200
Contact 'S'	General Purpose Adhesive	Area Coverage	3 m <sup>2</sup> 15 m <sup>2</sup>	1 It can 5 It can

### Typical Properties

		Explanation	
Recovery properties			
Immediately 1 minute 3 minutes 5 minutes 10 minutes 30 minutes	96.1% 96.9% 97.7% 98.3% 98.5% 98.6%	A TICO Pad 150 mm square, 12.5 mm thick was compressed to 65% of original thickness under a static load of 1.05 MN/m <sup>2</sup> and on release exhibited these recovery characteristics.	
Lateral flow (average)		A TICO Pad exhibited these flow characteristics under compression:	
Load: 350 kN/m <sup>2</sup> 1.05 MN/m <sup>2</sup>	0.46% 0.83%	Initial thickness: 12.5 mm Initial lateral dimension: 150 mm	

### Page 1 of 5

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Typical Properties	Effect of heat ageing on compression and recovery		
continued	A. Deflection of heat aged pad at (load): 210 kN/m <sup>2</sup> 350 kN/m <sup>2</sup> 700 kN/m <sup>2</sup> 1.05 MN/m <sup>2</sup> B. Recovery of heat aged pad: After 5 minutes	2.9% 8.3% 19.7% 31.4% 99.2%	TICO Pads of nominal dimensions 150 mm x 150 mm x 25 mm were aged for 90 days at 70°C in an air circulating oven. Micrometer measurements on recovery intervals established the percentage figures shown.
	Tensile strength	> 2.1 MN/m <sup>2</sup>	Tested in accordance with BS 903
	Elongation at break	50 %	
	Hardness	$69 \pm 5^{\circ}$	IRHD
	Thermal conductivity	0.1 0.7	W/m°C Btu x in/ft <sup>2</sup> x h x °F
	Young's Modulus	7.8	MPa
	Poisson's ratio	0.06	
	Damping factor	0.1	
	Coefficient of friction	0.65 0.5	TICO to concrete TICO to bright mild steel
	Temperature range	-40°C to +100°C	TICO S will operate satisfactorily over the indicated range and is suitable for both arctic and tropical climates.
	Load bearing capacity Recommended maximum load	0.5 MN/m <sup>2</sup>	TICO S will withstand very high dynamic and static loads without physical breakdown. In machinery mounting applications, the recommended maximum static load should not be exceeded without consultation.
	Dimensional stability	TICO S material is dimensionally stable under widely varying atmospheric conditions.	
Page 2 of 5	Electrical Resistance	7 x 10 <sup>10</sup> Ohms	Tico S tested at 1000V DC on a 12.5mm thick sample.

### Page 2 of 5

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Typical Properties Continued

#### **Chemical Resistance**

EXPOSURE	TICO S/PA RESISTANCE	EXPOSURE	TICO S/PA RESISTANCE	
Acetone	С	Methane	В	
Acetic Acid	С	Methyl Ethyl Ketone	С	
Air	A	Methylated Spirit	А	
Amyl Acetate	D	Naphtha	С	
Asphalt	С	Natural Gas	A	
Benzene	С	Oils (Vegetable and Mineral)	A	
Brine	В	Oxygen	Α	
Butane	В	Ozone	В	
Butyl Alcohol	A	Paraffin	В	
Borax (Sodium Borate)	A	Petroleum Spirit	В	
Carbolic Acid	D	Pitch	С	
Carbon Tetrachloride	D	Propane	В	
Caustic Soda	B*	Stearic Acid	В	
Citric Acid	A	Silver Nitrate	А	
Detergent	В	Soap Solution	А	
Diesel Oil	В	Sodium Chorate	В	
Diethylene Glycol	A	Sulphonated Fatty Alcohols	D	
Ethyl Alcohol	A	Tartaric Acid	А	
Formaldehyde	В	Tallow	В	
Glue	A	Tar	С	
Glycerine	A	Turpentine	С	
Isopropyl Alcohol	A	Tannic Acid	В	
Kerosene	В	Vinegar	В	
Lactic Acid	A	Water	В	
Latex Solution	A	White Spirit	В	
Lime Water	A	Whisky	А	
Methyl Alcohol	В	Wines	A	

\* This rating is based on the type of exposure found in the food and beverage industries.

Explanation of code:

Excellent Good

-В -C D

А

Suitable for splash conditions or intermittent contact -

Unsuitable

### Page 3 of 5

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#### Isolation Efficiency

- 1. Ascertain disturbing frequency of plant to be isolated (fd)
- 2. Calculate frequency ratio fd ÷ fn
- 3. From horizontal axis project a line up to curve of graph and read off isolation efficiency from righthand side vertical axis.





Page 5 of 5

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