



STANDARD COMMERCIAL MATERIALS

For use in conjunction with Dowty 'O' Ring Catalogues

The compounds listed have been specially selected to cover the widest possible range of working conditions thereby simplifying purchasing and stocking.

There is no advantage in selecting a rubber to cover a greater temperature range than is required for the application. To do so may mean a sacrifice in other properties and increased cost.

Many other materials are available for special applications. Advice on these is available through our advisory service.

APPLICATION	International Rubber Hardness Degrees (Nominal)	Material Reference
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'O' RING STANDARD STOCK MATERIALS		
Rubber for general use at temperatures between -40°C and +135°C with: Mineral-based hydraulic oils and greases Transformer and machine oils Engine oils S.A.E. 10 to 40 and multigrade Tractor Universal Oil Pneumatic applications	90	4490
	80	4480
	70	4470
	60	4460
Rubber for use at temperatures between -30°C and +100°C with: Water (N.W.C. approved for potable water systems.) Sea-Water Water-Soluble oil emulsions Anti-freeze (water/ethylene-glycol)	70	4470

PREFERRED MANUFACTURING MATERIALS		
Rubber for use at temperatures between -30°C and +135°C with: Gear oils S.A.E. 70 to 120 and E.P. lubricants Ester-based lubricants Paraffin and Petrol	75	5575
Towns and natural gases—temperatures up to 80°C . (Approved to E.E.C. Spec. EN26 for gas appliances).	75	5575
Rubber for use at temperatures between -40°C and +100°C with: Castor-based and other vegetable oils	80	6680
	65	6665
Rubber for use at temperatures between -30°C and +80°C having: Resistance to weathering, oxidation and ozone	70	7770
Polyurethane having high abrasion resistance Temperature range -30°C to +90°C	70	3370
Ethylene propylene—for use at temperatures between -50°C to +120°C . This material exhibits good weathering and ozone resistance plus good resistance to castor based and certain F.R. fluids. Excellent resistance to hot water and steam. (N.W.C. approved for potable water systems.)	75	2064
'Fluorobon'® fluoro-elastomer—temperature range -25°C to +250°C . Good resistance to various chemicals, mineral oils and fuels.	75	9775
Towns and natural gases—temperatures up to 80°C . (Approved to E.E.C. Spec. EN26 for gas appliances).	75	9775
Silicone—temperature range -60°C to +200°C . Extreme temperature compound, but with limited oil and fuel resistance. Good resistance to hot air and satisfactory for use in hot water.	70	8870

® 'Fluorobon' is a Dowty Registered Trade Name.

ANTI-EXTRUSION BACKING RINGS (See Description below Table 4-1 of 'O' Ring Catalogue No. 1)			
Leather, Caltan H or equivalent	-25°C to +80°C	—	1660
P.T.F.E.	-50°C to +100°C	—	1670
P.T.F.E. Glass Filled	-50°C to +175°C	—	1671

Dowty Seals Limited · Ashchurch · Gloucestershire · GL20 8JS · England
Tel.: Tewkesbury 292441 (STD Code 0684) Grams: "Dowtyseals Tewkesbury Telex" Telex: 43163