



## Technical Information

### Product- and Chemical Resistance of Flexible Rubber Materials

PD 65036 GB4 2002-10

The information below is intended as an aid in selecting the best rubber quality for an actual application. It is not possible to state any general lifetime of rubber seals as many factors influence it: chemical attack, temperature, mechanical wear etc. Extreme temperatures, even within the generally accepted limits, may worsen other kinds of attack and thus reduce the lifetime.

#### **Ratings:**

- 1 = Unsuitable.
- 2 = Limited suitability.
- 3 = Normal suitability.
- 4 = High suitability.
- = Not recommended for other reasons.

The table contains data which have been compiled from the results of our own tests and the recommendations of our raw material suppliers. The data should be considered as recommendations only and will be brought up-to-date from time to time. They are based on constant contact with the specified product.

In case of doubt or lack of information it would be advisable to consult us directly, which will enable us to investigate specific applications.

Product or process:	ISO 1629	Designation of flexible rubber materials	Abbreviation symbol
	NBR	Nitrile rubber	N
	HNBR	Hydrogenated acrylonitrile rubber	H
	EPDM	Ethylene Propylene rubber	E
	Q	Silicone rubber	Q
	FPM	Fluorinated rubber	F
	PTFE/ PFA	Polytetrafluor ethylene Perfluoroalkoxy polymer	P
Abrasive products		1	1
Dairy products (milk, cream)		3	3-4
Dairy products (sour milk products)		3	3-4
Brewery products (beer, hops etc.)		3	3-4
Wine and yeast		3	3-4
Animal and vegetable fats	100°C	3	4
Water and water solutions	< 70°C	3	4
Hot water and steam	< 130°C	1	4
Concentrated fruit juices and etheral oils	< 100°C	1	-
Non-oxdising acids	< 80°C	1-2	2
Oxydising acids	< 80°C	-	2
Weak concentrate of lye	< 100°C	2	3-4
Strong concentrate of lye	<100°C	1	2-3
Mineral oils	< 110°C	3	4
Aliphatic carburetted hydrogen (hexane)		3	3
Aromatic carburetted hydrogen (benzole)		1	2
Alcohols		1-3	2-3
Ester and ketones		1-2	1-2
Ether		1	2
Methylene chloride		1	2
Ozyne and atmospheric conditions		1-2	3

International designation of flexible rubber materials according to ISO 1629.

ISO = International standard.

#### How to contact Alfa Laval

Contact details for all countries are continually updated on our website. Please visit [www.alfalaval.com](http://www.alfalaval.com) to access the information direct.