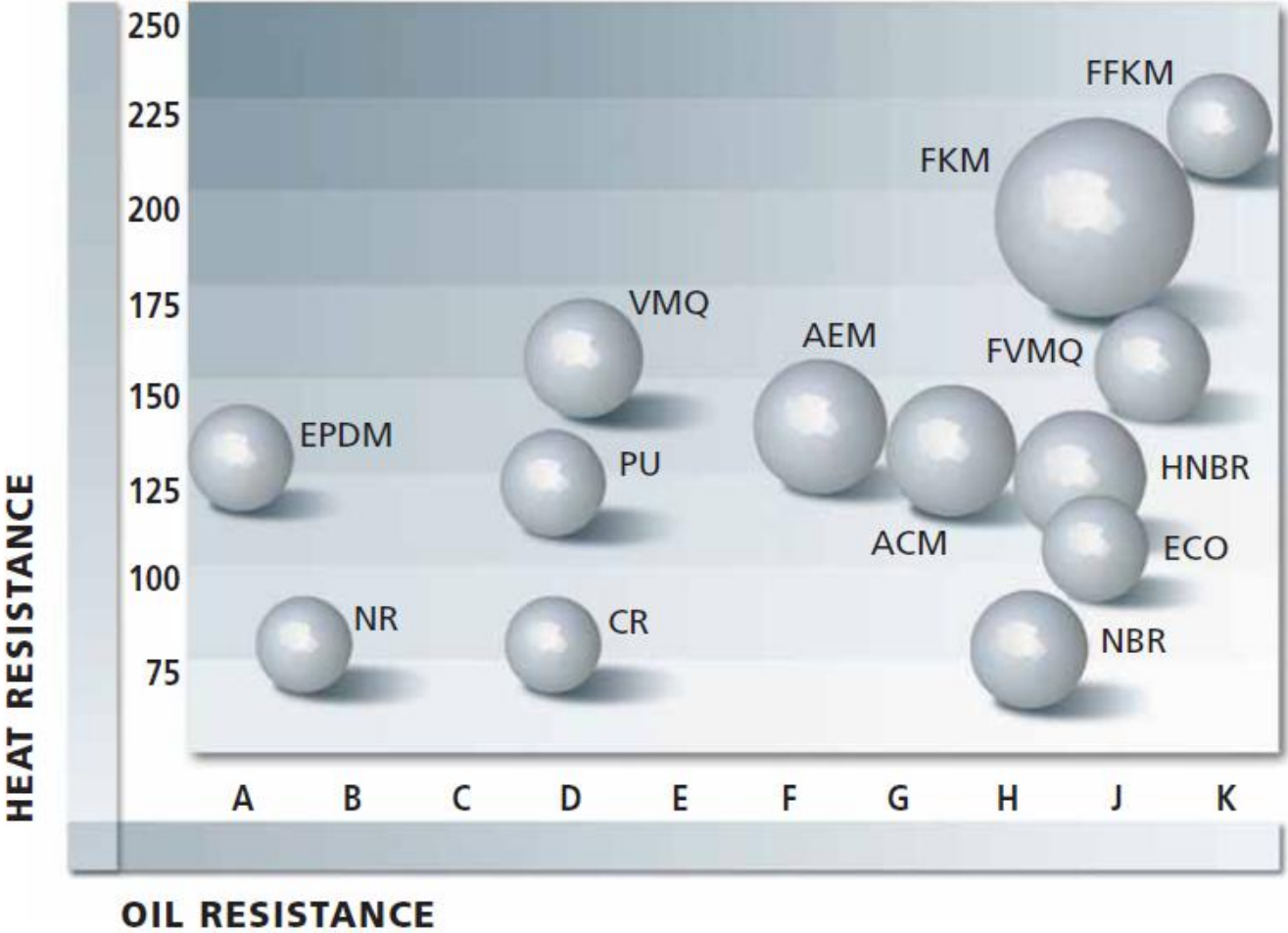
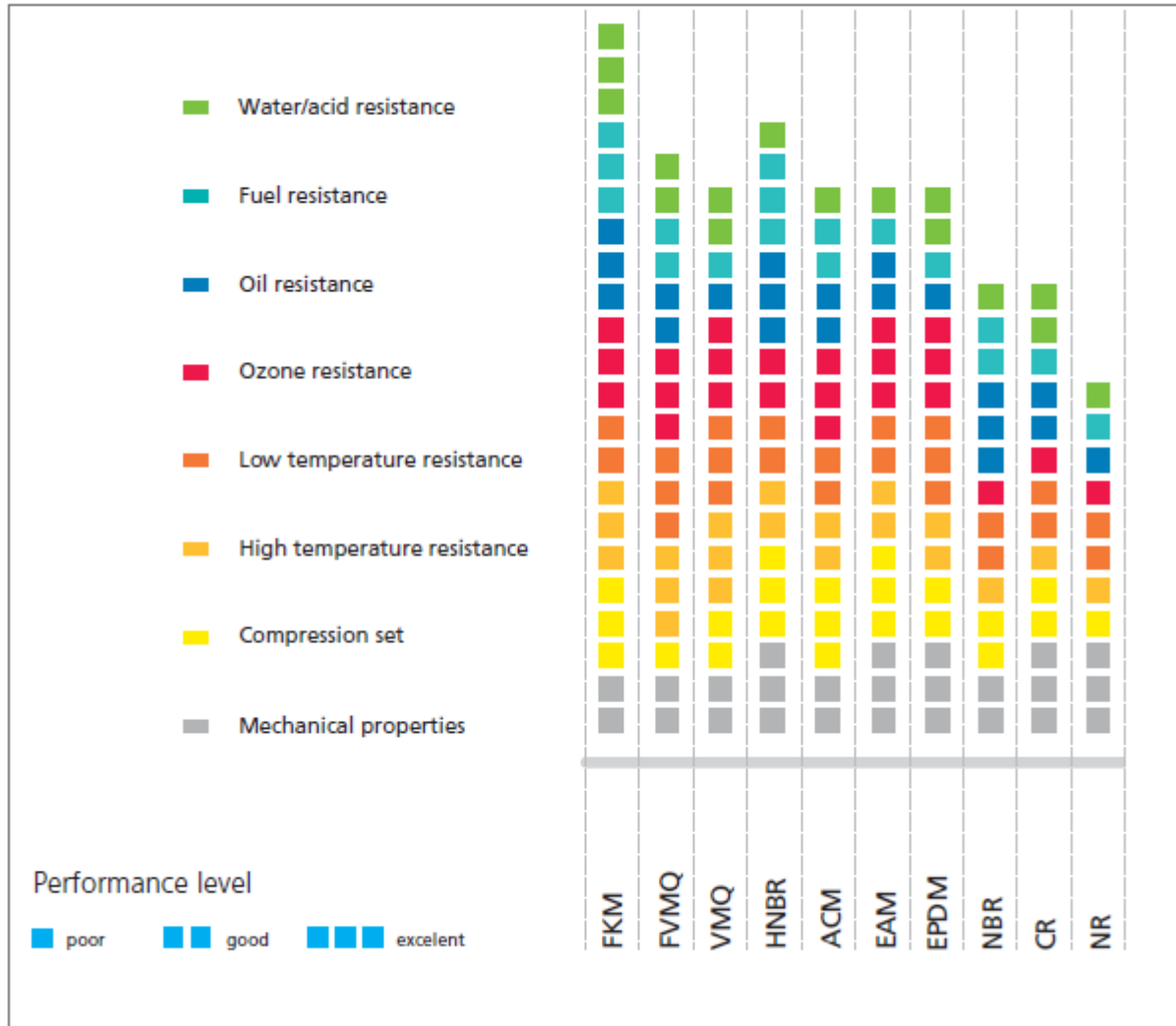






# BER-PA: ELASTOMER TYPES

## Performance ASTM D 2000





CHEMICAL DESCRIPTION	ACRONYM	MAIN FEATURES	TEMPERATURE RANGE <small>(General temperature range that may differ according to the different grades of each compound type)</small>	HARDNESS RANGE	CHEMICAL RESISTANCE
Perfluoroelastomer (HPSealing®) 	<b>FFKM</b> <b>FFPM</b>	Excellent chemical resistance against low molecular weight aldehydes and ketons.	-10°C + 320°C	From 60 to + 90 m IRHD	Excellent resistance in aldehydes and ketons.
Fluoroelastomer (Viton®) 	<b>FKM</b> <b>FPM</b>	Excellent resistance against chemical agents, lubricants, heat and flames. Outstanding behavior to compression set. Excellent behavior in ozone and U.V. rays. 	-25°C+ 240°C  SPECIAL GRADES -30°C;-40°C;-50°C	From 50 to + 90 m IRHD	Special chemical agents for which excellent resistance in a wide temperature range is guaranteed: aliphatic, chlorinated, aromatic, hydrocarbons, fuel, mineral and vegetal oils and fats, hydraulic fluids and general.
Aflas® 	<b>TFE/P</b>	Characteristics similar to fluorocarbon compounds, with higher chemical resistance in special environments. Steam, basic oils.	-20°C +240°C	From 60 to + 90 m IRHD	In addition to chemical agents for fluorocarbon compound, good resistance to saturated steam up to 180/200°C, acids and strong mineral bases and their solutions.

**ELASTOMER TYPES [Parzani Sergio – 04/10/2008 – BER-PA SRL]**

	<b>TFE/P/VDF</b>	Good resistance to steam and basic agents.	-20°C +240°C	From 60 to +90 m IRHD	Excellent resistance in basic oils and amines.
Fluorosilicon	<b>FVMQ</b>	Similar to silicon but with higher chemical resistance against lubricants oil ecc...	-55°C +200°C WITH PICKS TO 250°C	From 20 to +80 m IRHD	Good in aliphatic hydrocarbons, mineral oils, ozone and UV, fair in fuel
Hydrogenated Nitrile Butadiene Rubber	<b>HNBR</b>	Excellent field of mechanical values. Excellent abrasion resistance. Good compression set. Good ageing behavior.	-40°C +150°C	From 50 to +90 m IRHD	Mineral oils, hydrocarbons, water, steam, gas, vegetable oils.
Ethylene-Propylene Diene Rubber	<b>EPDM</b>	Outstanding resistance to heat, atmospheric agents and ageing. Exceptionally low embrittlement temperature (-94°C)	-60°C +150°C	From 50 to +90 m IRHD	Good resistance to aggressive chemicals and to oxygenation
Silicone Rubber	<b>VMQ</b>	Not affected by temperature changes, excellent insulator and when properly formulated perfect no-toxicity and possibility of conductive grades.	-65°C +200°C	From 20 to +90 m IRHD	Very good in water solutions, exposure to weather, ozone and UV rays, in animal oils and glycols.
Nitrile Butadiene Rubber	<b>NBR</b>	Outstanding resistance to oils heat, and ageing. Good mechanical properties. Low compression set and low permeability to gas.	-50°C +130°C	From 50 to +90 m IRHD	Minerals oils, hydrocarbons, water, steam, gas, vegetal oils.
Chloroprene Rubber	<b>CR</b>	Fair resistance to oils. Excellent resistance to ozone sea water and ageing. Good shear strength, abrasion and combustion resistance.	-50°C +120°C	From 50 to +90 m IRHD	Petroleum derivatives, sun light and atmospheric agents, ozone, flame.
Acrylic Rubber	<b>ACM</b>	Better resistance to oils and temperature than NBR (anti-oil)	-40°C +165°C	From 50 to +90 m IRHD	Aliphatic oils, heat, oxygen, ozone.

**DISCLAIMER NOTE**

HPS sealing® is trademark of BER-PA SRL - Viton® is trademark of DuPont Performance Elastomers.- BER-PA SRL is an official Licensee for DuPont Performance Elastomers Viton® -AFLAS® is a registered trademark of the Asahi Glass Company

The information and data presented herein are, to the best of our knowledge, true and accurate. They are intended for use by persons having technical skill and their own discretion and risk; no warranty or guarantee, expressed or implied, is made and no liability is assumed in connection with any use of such information and data. Nothing herein shall be construed as a recommendation to infringe any existing patent or violate any applicable law.

The distribution of this document is not monitored. This data sheet is not subject to an automatic update.