

Overview of vacuum cup materials

Material code	Short designation	Hardness [Shore A ± 5°]	Commercial designation	Commercial name (example)	Short-term working temperature [°C]	Abrasion resistance	Flexibility	Oil-resistance	Fuel resistance	Ozone and weathering resistance	Acid resistance	Leaching resistance
1	NBR	50 - 60	Nitrile rubber	Perbunan®	-30 / +90	+	+	+++	+	0	0	0
1-AS	NBR-AS	50 - 70	Nitrile rubber, anti-static		-30 / +90	+	+	+++	++	0	0	+
2	Si	50 - 65	Silicone rubber	Elastosil®	-40 / +200	0	+++	0	0	+++	0	0
2-AS	Si-AS	50 - 60	Silicone rubber, anti-static		-40 / +200	0	+++	0	0	+++	0	0
2-FS	Si-FS	40	Fluorosilicone		-50 / +190	0	+++	+	+	+++	++	+++
3	NR	50 - 65	Natural rubber	SMR	-40 / +80	++	+++	0	0	0	+	++
4	NR	35 - 45	Natural rubber	SMR	-40 / +80	++	++++	0	0	0	+	++
5	PU	50 - 65	Polyurethane (EU/AU)	Urepan®	-20 / +80	++	+	+++	++	+	0	0
7	FKM	65	Fluor rubber (FPM)	Viton®	-10 / +230	0	0	++++	++++	++++	+++	+++
8	SI	35 - 45	Silicone rubber	Elastosil®	-40 / +200	0	++++	0	0	+++	0	0
9	CR	50 - 60	Chloroprene	Neoprene®	-40 / +110	+	+	++	0	++	+	+
10-AS	BR-AS	60	Butadiene rubber, anti-static		-50 / +100	++	+	0	0	0	+	++
11	Vulkollan®	75		Vulkollan®	-40 / +80	++++	+	+++	++	+++	+	+
12	Foam rubber						++++					
13	SBR	50 - 60	Styrene-butadiene-rubber (SBR)	Buna®	-30 / +80	+++	++	0	0	+	+	+
14	HNBR	55	Hydrogenated acrylonitrile-butadiene rubber	Therban®	-30 / +160	++	+	++++	++	+++	+	+
15	EPDM	50		Vistalon®	-40 / +130	+	++	0	0	++++	+++	+++
17	Tepuflex®	50	Thermoplastic elastomer		0 / +60	+++	++	0	0	+++	0	0
18	TPU	60	Thermoplastic elastomer	Elastollan®	0 / +65	+++	0	+++	++	+++	0	+
19	Thermalon®	60			0 / +160	++	+	+++	++	0	+	+
V	Vinyl	50 - 55	PVC (soft)		0 / +60	+++	++	+	+	++	++	++

↑ +++++ = Excellent +++ = Very good ++ = Good + = Fair 0 = Low to satisfactory