

Overview of vacuum cup materials

| Short designation | Material code | 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 |
|-------------------|---------------|-------------------------|---|---------------------------|-------------------------------------|---------------------|-------------|----------------|-----------------|---------------------------------|-----------------|---------------------|
| BR-AS | 10-AS | 60 | Butadiene rubber, anti-static | | -50 / +100 | ++ | + | 0 | 0 | 0 | + | ++ |
| CR | 9 | 50 - 60 | Chloroprene | Neoprene® | -40 / +110 | + | + | ++ | 0 | ++ | + | + |
| EPDM | 15 | 50 | | Vistalon® | -40 / +130 | + | ++ | 0 | 0 | ++++ | +++ | +++ |
| FKM | 7 | 65 | Fluor rubber (FPM) | Viton® | -10 / +230 | 0 | 0 | ++++ | ++++ | ++++ | +++ | +++ |
| Foam rubber | 12 | | | | | | ++++ | | | | | |
| HNBR | 14 | 55 | Hydrogenated acrylonitrile-butadiene rubber | Therban® | -30 / +160 | ++ | + | ++++ | ++ | +++ | + | + |
| NBR | 1 | 50 - 60 | Nitrile rubber | Perbunan® | -30 / +90 | + | + | +++ | + | 0 | 0 | 0 |
| NBR-AS | 1-AS | 50 - 70 | Nitrile rubber, anti-static | | -30 / +90 | + | + | +++ | ++ | 0 | 0 | + |
| NR | 4 | 35 - 45 | Natural rubber | SMR | -40 / +80 | ++ | ++++ | 0 | 0 | 0 | + | ++ |
| NR | 3 | 50 - 65 | Natural rubber | SMR | -40 / +80 | ++ | +++ | 0 | 0 | 0 | + | ++ |
| PU | 5 | 50 - 65 | Polyurethane (EU/AU) | Urepan® | -20 / +80 | ++ | + | +++ | ++ | + | 0 | 0 |
| SBR | 13 | 50 - 60 | Styrene-butadiene-rubber (SBR) | Buna® | -30 / +80 | +++ | ++ | 0 | 0 | + | + | + |
| SI | 8 | 35 - 45 | Silicone rubber | Elastosil® | -40 / +200 | 0 | ++++ | 0 | 0 | +++ | 0 | 0 |
| SI | 2 | 50 - 65 | Silicone rubber | Elastosil® | -40 / +200 | 0 | +++ | 0 | 0 | +++ | 0 | 0 |
| SI-AS | 2-AS | 50 - 60 | Silicone rubber, anti-static | | -40 / +200 | 0 | +++ | 0 | 0 | +++ | 0 | 0 |
| SI-FS | 2-FS | 40 | Fluorosilicone | | -50 / +190 | 0 | +++ | + | + | +++ | ++ | +++ |
| Tepuflex® | 17 | 50 | Thermoplastic elastomer | | 0 / +60 | +++ | ++ | 0 | 0 | +++ | 0 | 0 |
| Thermalon® | 19 | 60 | | | 0 / +160 | ++ | + | +++ | ++ | 0 | + | + |
| TPU | 18 | 60 | Thermoplastic elastomer | Elastollan® | 0 / +65 | +++ | 0 | +++ | ++ | +++ | 0 | + |
| Varioflex® | 16 | 30 / 60 | Polyurethane (2 Shore Hardnesses) | | +10 / +50 | +++ | ++++ | +++ | +++ | ++ | 0 | +++ |
| Vinyl | V | 50 - 55 | PVC (soft) | | 0 / +60 | +++ | ++ | + | + | ++ | ++ | ++ |
| Vulkollan® | 11 | 75 | | Vulkollan® | -40 / +80 | ++++ | + | +++ | ++ | +++ | + | + |

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

Ordering example: Flat vacuum cup made of silicone 50° Shore A

Item No.

102.030.222.* > Add material code > 102.030.222.2

Note!

- > Depending on the application, vacuum cups are subject to mechanical and chemical stresses. The data serve therefore only as guidelines.
- > Special vacuum cups fitted with felt linings are extremely low-marking and can be deployed at temperatures up to a max. of 500 °C.
- > Material colors may change, but the quality remains unaffected.
Material colors: bg = beige, bl = blue, br = brown, g = green, ge = yellow, gr = gray, or = orange, r = red, sw = black, tr = transparent, w = white