Natural rubber (NR)

Short designation	NR
Brand name	-
Chemical description	Natural rubber
Mechanical properties	
Hardness range [Shore A/D]	30 - 90
Wear resistance	good
Tensile strength [MPa]	10 - 30
Physical properties	
Density [g/cm^3]	1.35
Application temperatures	
Temperature range, short-term [°C]	-50 - 100
Temperaturerange,continuous[°C]	-30 - 80
Other properties	
FlammabilityaccordingtoUL94	burns
Chemical resistance	
Mineral grease and oils	-
Petrol	- -
Weak/strong acids	- / - -
Weak/strong alkalis	+ / o
Perchloroethylene	- -
Trichloroethylene	- -
Acetone	o
Alcohols	++
Brake fluid	++
Hydrolysis resistance (hot water)	+
Weather/UV radiation	+

Natural rubber (NR)

Main uses	NR is currently still predominantly obtained as natural latex from the rubber tree. However, a growing proportion of the industrial demand is made synthetically through petrochemical processes. Natural rubber boasts relatively high strength and elasticity. Due to its flexibility – even at low temperatures, it is often used for engine mounts and rubber and metal spring elements.

++ very good / + good / o satisfactory / - moderate (significant change to properties) / -- unsuitable