

**NEODYMIUM BUTADIENE RUBBER (BR)
GRADES BR-544, BR-563**

Neodymium butadiene rubber (BR) grades BR-544, BR-563 is a product of 1,3-butadiene polymerization in aliphatic hydrocarbons medium over neodymium compounds based catalyst system.

Application: manufacture of tires and rubber goods and other sectors of national economy (including conveyor belts, V-belts, shoe soles).

Chemical name: cis-1,4-polybutadiene

Empirical formula: $(-CH_2CH=CHCH_2-)_n$

Standard specification: TU 20.17.10-100-05766801-2021

Product Characteristics

Property	Values by grade		Test Methods
	BR-544	BR-563	
1. Mooney Viscosity ML 1+4 (100 °C), MU, within	40-49	60-70	para 4.2 of TU or ASTM D 1646
2. Viscosity spread in a lot Mooney, MU, max	6		para 4.2 of TU
3. Loss on drying, wt %, max	0.50		para 4.3 of TU or ASTM D 5668
4. Non-staining antioxidant, wt %, min	0.20		para 4.4 of TU
5. Ash, wt %, max	0.50		para 4.5 of TU or ASTM D 5667
6. 1.4-cis units, wt %, min	96		para 4.6 of TU or para 4.7 of TU
7. Curing characteristics, within: - minimum torque M_L , dNm - maximum torque, M_H , dNm - time to cure start, t_{S1} , minutes - time to 50% cure, $t'(50)$ minutes - time to 90% cure, $t'(90)$ minutes	Not rated, determination is mandatory		para 4.8 of TU

Product form: 30 ± 1 kg bales

Packaging: Bales are wrapped in PE film or EVA film.
 Wrapped briquettes are packed in box pallets:
 - polymer container;
 - metal containers of type MV-5 (or its analogs).
 Pallet box internal surface is covered with PE film or PE bag (liner) to protect from contamination; after loading the box is closed and wrapped with belt. Two shipping labels are applied to each pallet box.

Transportation: All types of transport in accordance with the applicable shipping rules.

Storage: Rubber packed in:
 - polymer containers are stored in stacks of no more than 3 deck in height;
 - metal containers are stored in stacks up to 5 deck in height;
 Packaged rubber is stored in the warehouse of the manufacturer or consumer in places protected from direct sunlight, atmospheric precipitation and pollution.
 Guarantee shelf life - 2 year from the date of production.

The information herein is based on our data compiled and believed to be reliable on the revision date. This specification does not release the customer from the responsibility to check the product for fitness for the intended use. Producer disclaims liability for any loss or damage arising from usage of this information.