

SOLUTION STYRENE-BUTADIENE RUBBER (SSBR)

Solution styrene-butadiene rubber (SSBR) is product of solution copolymerization of 1,3-butadiene and styrene over organolithium catalysts.

Chemical name: Polymer of 1,3-butadiene and styrene

Application: solution styrene-butadiene rubber grades SSBR-621, SSBR-628 grades, is applied for production of all-weather and summer tires with low rolling loss, high wet grip and wear resistance; grades SSBR-610, SSBR-615 is applied for production of advanced winter tires with low rolling loss, high icy grip and durability.

Empirical formula: $[(C_8H_8)_m (C_4H_6)_n]_x$

Standard specification: TU 20.17.10-213-05766801-2019

“A” or “B” letter is added to the name of grade depending on type of functionalizer. Rubber functionalization provides better processability of rubber compounds and excellent performance properties of tires.

Product Characteristics

Property	Value by grade				Test method
	SSBR-621	SSBR-615	SSBR-628	SSBR-610	
1. Mooney Viscosity ML 1+4 (100°C), MU, within	55-85	60-90	60-95	70-100	para. 4.2 of TU or ASTM D 1646
2. Viscosity spread in a lot Mooney, MU, max	6	6	6	6	para. 4.2 of TU
3. Ash, wt %, max	0.30	0.30	0.30	0.30	para. 4.3 of TU or ASTM D 5667
4. Loss on drying, wt %, max.	0.80	0.80	0.80	0.80	para. 4.4 of TU or ASTM D 5668
5. 1,2-units, wt %, within	57.0-67.0	25.0-35.0	54.0-64.0	37.0-47.0	para. 4.5 of TU or ISO 21561-2
6. Bound styrene, wt %, within	18.0-24.0	12.0-18.0	24.0-30.0	7.0-13.0	para. 4.5 of TU or ISO 21561-2
7. Non-staining antioxidant, wt %, min	0.10	0.10	0.10	0.10	para. 4.6 of TU

Product form: 30 ± 1 kg bales

Packaging: Bales are wrapped in PE film or EVA film, PS film for ABS-plastics.

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 - 1 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.