



**PRODUCT SPECIFICATION**  
**OIL EXTENDED STYRENE BUTADIENE RUBBER**  
**SBR 1705 (LOW OIL SBR-1712)**

- PRODUCED BY COPOLYMERISING BUTADIENE WITH STYRENE MONOMER IN EMULSION AT 5°C AND BY USING A MIXTURE OF ROSING AND SYNTHETIC-ACID SOAPS AS EMULSIFIER
- PRECIPITATED FROM LATEX BY SALT AND ACID TECHNIQUES.
- THIS TYPE IS A HALF-OIL CONTENT SBR-1712. THE NECESSARY OIL QUANTITY IS ADDED WHILE MIXING.

**BASIC SPECIFICATIONS**

<b>Chemical</b>	
Oil, %	15-17
Free organic acids, %	3.9-5.7
Combined organic acids, %	Maximum 0.3
Antioxidant, %	1.3-2.1
Ash, %	Maximum 0.6
Weight losses at 105°C	Maximum 0.4
Iron, %	Maximum 0.006
Copper, %	Maximum 0.0002

  

<b>Physical</b>	
Mooney viscosity (ML 1+4@100°C)	45-55
Hardness, gf	600-800
Recovery, mm	Maximum 3.4
Tensile strenght at break, kgf/cmI	Minimum 220
Elongation at break, %	Minimum 550
Permanent set, %	Maximum 20
Resiliens, %	Minimum 28

**Test recipe for assessing the physical properties of the rubber**

	Parts by weight
Rubber SBR 1705	100.0
Gas channel black	10.0
Zinc oxide	5.0
2,2'-benzothiazolyl disulphide	2.75
Sulphur	2.0
	149.75

**Packing**

30 kg paper bags, loose sacks or wooden pallets each 0.45 Mt/ 0.50 Mt N.W / G.W.

Specification is revised: 1-Oct-99, 17-Apr-2000.

This specification refers to product from Togliatti/Sterlitamak/Omsk production units in Russia.