SKI-3S CIS-ISOPRENE SYNTHETIC RUBBER





SKI-3S cis-isoprene synthetic rubber is cis-1,4-polyisoprene obtained by polymerization of isoprene in solution using stereospecific catalyst based on titanium. The rubber is stabilized by mixture of two non-staining antioxidants. Content of cis-1,4-units, min: 96 %.

CAS #9003-31-0. The monomers are registered under EU REACH.

APPLICATION: for manufacture of auto tyres for lining of side-frames as well as coloured bicycle and motorcycle tyres, and also in manufacture of colored rubber goods, non-coloured industrial rubber goods used in manufacturing industry (rubber hoses, tubes, shoe soles).

Rubber should not contain any foreign impurities and must meet the following requirements:

Appearance: briquettes (bales)
Weight: 30.0±1.0 kg

Colour: from white to light-milky

Specific gravity: 0.91-0.92 q/cm³

TECHNICAL REQUIREMENTS

LOTHIOAL REGUINEMENTS					
Parameter	Standard	Test Method	Note		
Mooney viscosity ML 1+4 (100°C)	72-88	ASTM D 1646			
Viscosity spread within a batch, units, max	5				
Volatile matter content, %, max (1 hour)	0.8	ASTM D 5668			
Stearic acid content, %	0.5-1.5	Method used in the Russian Federation	Ø		
Ash content, %, max	0.35	ASTM D 5667			
Mixture of antioxidants: Agidol-1 (BHT) content, % Tris (2,4-di-tert-butylphenyl) phosphite content, %	0.15-0.40 0.04-0.20	Method used in the Russian Federation	V		
Rheomet	ric Properties				

	Rheometric Properties		
ML, dNm	1.0-2.0	ASTM D 5289	
MH, dNm	11.0-15.0	ASTM D 5289	
ts1, min	2.3-3.5	ASTM D 5289	
t'50, min	3.9-5.2	ASTM D 5289	
t'90, min	6.8-8.4	ASTM D 5289	

^{☑ -} specified in the certificate of quality.

GUARANTEED SHELF LIFE:

Preparation of rubber mixes is carried out in accordance with ASTM D 3403-07, mixing - according to C method (on the roll mills). Roll mills are prepared according to ASTM D 3182-07. Vulcanization characteristics are determined according to ASTM D 5289 using an MDR 2000 rheometer (flow meter).

Wait time for rubber mix before testing is 2-6 hours.

Rubber mix recipe in parts by weight:		Rheometer MDR 2000, measurement conditions:		
Rubber	100.00	Temperature, °C	160	
Zinc oxide	5.00	Duration. min	30	
IRB 7 (N330) carbon black	35,00	Oscillation amplitude, deq.	±0,5	
Sulphur	2.25	Oscillation frequency. Hz	1.7	
Stearic acid	2.00			
TBBS (N-tert-Butyl-2-benzothiazolesulfenamide)	0.70			

PACKING:

Rubber briquettes (bales) are packaged in double-layer marked PE film (thickness of 0.05 ± 0.01 mm, melting temperature of 108-112°C), then – in plastic box pallets of 540kg or in

plywood or metal containers of 1,260kg.

TRANSPORTATION: Rubber is transported by all types of transport in covered transporting means in accordance to all rules of cargo's transportation standing at transport of this form.

STORAGE: Under normal conditions of storage (at a temperature not exceeding 30°C, in dry place free from direct sunlight)

2 (two) years from the manufacture date. After the expiration of the guaranteed shelf life, the rubber can be used for its intended purpose after confirmation of its conformity to the requirements of this product specification.