



**PRODUCT SPECIFICATION**  
**HIGH CIS POLYBUTADIENE : SKD-EF (2)**  
**( GOST 14924 )**

PRODUCT DESCRIPTION (SKD\_EFVER.)

DATE : 04.02.2008

TITANIUM BASED CATALYST.

APPEARANCE: AMBER COLOURED BALES

**RAW POLYMER PROPERTIES**

		METHOD (**)
<b>CIS 1,4 content</b>	<b>94 max.</b>	
Mooney viscosity (pts) (ML 1+4 at 100 degC)	45+5	GOST 10722
Volatiles (wt %)	0,4 max.	GOST 19338
Ash (wt %)	0,3 max	GOST19816.4
Antioxidant (wt %)	1.2	GOST 19920.12
Density (g/cm3)	0.92	

**RHEOMETRIC PROPERTIES (1)**

Minimum torque, ML (dNm)	11.5 <sup>+/-</sup> 1	ISO 3417
Maximum torque, MHF (dNm)	40 <sup>+/-</sup> 3	ISO 3417
Scorchtime, ts 1 (min)	3,0 - 4,5	ISO 3417
50 % - Cure Time, t'c (50) (min)	6,5 - 9,0	ISO 3417
90 % - Cure Time, t'c (90) (min)	9,5 - 13	ISO 3417

**TENSILE STRESS - STRAIN PROPERTIES**

Stress at 300 % - elongation, MPa	6,5 - 10	GOST 19920,20
Tensile strength at break, MPa	14 - 19.1	GOST 19920,20
Elongation at break, %	400 - 550	GOST 19920,20
Rebound elasticity, % min.	51	GOST 19920,20

**PACKAGING**

Bale weight, (kg)	30 <sup>+/-</sup> 1
Film wrap	50MKM <sup>+/-</sup> 5
Pallet weight (kg)	about 450

**REMARKS**

(1) Rheometric and physical properties determined for the compound based on following recipe :  
(ISO 2476 / Amendment 1)

SKD Rubber	100	Rheometer test conditions
Reference Black (Type HAF)	60	160°C, 1 degr., arc 1.7 Hz,
Zinc Oxide	3	
Stearic Acid	2	Mixing - mill mixing, method C2
Petroleum oil	15	
TBBS	0,9	Cure conditions: 35 min.
Sulphur	1,5	at 145 degC
		Stress - strain test pieces :
		dumb - bells, Type 1; Test - 23°C

(\*) This specification refers to product from Efremov/Voronezh production units in Russia.

(\*\*) Descriptions of Russian standards (GOST & TY) are available upon request.

**Packing** : polyfoil coated bales of about 30 kg packed on pallets of about 450 kg net weight.