



SPECIFICATION

COBALT CATALYST

HS CODE - 40022000 | CAS NO - 9003-17-2

Typical properties	Test Method	UNIT	Value
Cis content	ZEON R-130A	Wt	Min 97
Raw Mooney Viscosity	ASTM D-1646	ML-4	41-49
Volatile Matter	ASTM D-1416	% Wt	Max 0.5
Ash Content	ASTM D-1416%	% Wt	Max 0.3
Compound			
Compound Mooney Viscosity	ASTM D-1646	ML-4	Max 77
Tensile (35 min)	ASTM D-412	Kgf/cm2	Min 150
Elongation (35 min)	ASTM D-412	%	Min 440
300% Modulus at 145 °C	-	-	68-108
25 Min.	ASTM D-412	Kgf/cm2	74-114
35 Min.	-	-	74-114
50 Min.	-	-	-
Rheometer at 160 °C	-	lbf in	32.0-40.0
MH	-	lbf in	5.2-11.2
ML	ASTM D-3189	Min	2.1-6.1
TS-1	-	Min	6.0-10.4
T50	-	Min	8.3-13.1
T90	-	-	-
Compound Recipe			
Raw BR	-	Part	100
HAF Carbon (IRB No. 6)	-	"	60
Zinc Oxide	-	"	3
Stearic Acid	-	"	2
Accelerator (TBBS)	ASTM D-3189	"	0.9



Typical properties	Test Method	UNIT	Value
Sulfur	-	"	1.5
Highly Aromatic Oil	-	"	15
Vulcanization Temperature	-	°C	145
Other Specifications			
Anti Oxidant	Non Staining – High Quality		
Catalyst Type	Cobalt		
Packaging	35 Kg Bales, Wrapped In 50 Micron LDPE Film & each 30 bales are in a box pallet		

Specification of Chemicals Used In the Compound

Carbon Black HAF: IRB No. conforming to NBS-SRM No. 378

Zinc Oxide (White Zine): NBS-SRM No. 370 JIS K-1410 No. 1

Stearic Acid: NBS-SRM No. 372 Fractional fatty acid of JIS K- 3341

Oil: ASTM oil type 103 (sansen 4240 of Japan sun oil Co.)™

Accelerator (TBBS): U.S. monanto's santocure-NS conforming to NBS-SRM No. 384

Sulfur: NBS-SRM No. 371, one type of JIS K-6222.325 meah product

Composition

BR is a stereo specific high Cis-1,4 polybutadiene. It is manufactured by a solution process using a cobalt catalyst which produces polymers with a low level of impurities. BR contains a non-staining high quality stabilizer system, too.

Applications

BR is used for the production of tire, footwear, belts, rubber hoses & other mechanical rubber products.

Storage

BR should be stored in an adequately ventilated area where it will not be subjected to sunlight, extreme temperatures or sources of ignition.

Under the above-motional conditions BR should have a storage life of at least 12 months from the date of production.