



**RUBBER
CONVERSION**

SRC UHE 450 Technical Data Sheet

Release
Version
1.2.1

Date: 01/03/2018

Replaces
Version
1.2

Date: 14/11/2017

DESCRIPTION

Origin: truck tire tread
Appearance: powder
Colour: black

MAIN FEATURES

Chemical and Physical Properties	U.M.	Test	Values
RHC (total polymer content)	%	UNI EN ISO 9924	55 ÷ 68
Carbon Black	%	UNI EN ISO 9924	27 ÷ 34
Ash	%	UNI EN ISO 9924	6 max
Acetone extract	%	ASTM D 297	8 max
Tensile strenght (15'/145°C) *	MPa	ASTM D 412	8 min
Elongation at break (15'/145°C) *	%	ASTM D 412	400
Hardness (IRHD) *	IRHD	ISO 48	53 ÷ 63

* Values related to a compound with 30% SRC content (by weight)

PACKAGING

Package	Weight x package (Kg)	Transport
EVA bags	5 ÷ 20	Wooden or plastic pallets



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M.B. NR/SBR blend										
code Devic. %		M-90 Duram		M-90 / Devulcanized				Corrected acceleration		
Ingredients				85/15	75/25	50/50	30/70	A	B	
Master batch	SMR CV60	100.00	M.B. M-90							
				85.00	75.00	50.00	30.00	50.00		
	Carbon Black	42.00	Devulc.NR							
				15.00	25.00	50.00	70.00	50.00		
	ZnO	2.40	ZnO							
				0.26	0.43	0.88	1.20	0.88		
	Stearic acid	1.50	Stearline							
				0.18	0.30	0.60	0.80	0.60		
	Flectol TMQ	1.00								
	6PPD	1.00								
Struktol A-60	1.00									
Total		149.40		100.44	100.73	101.48	102.00	101.48		
Accelerators	Sulfur	1.60	Sulfur	1.00	1.00	1.00	1.00	0.60	0.80	
	TMTM	0.05	MBS	0.50	0.50	0.50	0.50	0.60	0.70	
	DTDM 80%	0.22	DTDM					0.80		
	CBC	0.63								
	Struktol A-60	0.50	PVI						0.10	
Rheometer	MDR 2000 160° C	ML	1.95		2.17	2.37	2.86	3.51	2.85	3.02
		MH	14.84		13.29	13.70	14.43	14.26	14.59	13.50
		TS2	2.50		1.58	1.34	0.87	0.65	1.29	1.17
		T50	3.17		2.48	2.06	1.37	1.03	1.70	1.66
		T90	4.82		4.66	3.89	2.64	2.05	2.62	2.81
Hardness Shore A	0	60		61	62	63	63	62.5	61.5	
	+									
Modulus kg/cm ²	100%	0	28		22	22	25	29	25	22
		+								
	200%	0	62		55	54	63	74	62	55
		+								
	300%	0	120		107	107	125	148	122	109
		+								
Tensile strength kg/cm ²	0	289		257	250	238	224	239	240	
	+									
Elongation %	0	546		538	503	445	387	448	479	
	+									
COMP. SET										
SPCIFIC GRAVITY	S.G.									
		1.087		1.095	1.100	1.111	1.120	1.111	1.11	
ABRASION RESISTANCE - ML.		123		136	135	145	149			
TEAR STRENGTH TROUSERS DIE kg/cm		18.8		16.1	15.2	9.0	7.9			