

## Buna SE 1712 HN

### Product Description

Buna SE 1712 HN is a butadiene-styrene copolymer, produced by cold emulsion polymerization, using fatty and rosin soaps as emulsifiers. The elastomer is extended in heavy naphthenic oil with a PCA (Polycyclic Aromatic Hydrocarbons) content less than 3,0% and PAHs (Individual Polycyclic Aromatic Hydrocarbons) content less than 10 ppm which is compliant with the European directive 2005/69/EC.

The monomers are randomly distributed in the polymer structure, while the butadiene fraction is found in its major part in the trans configuration with small fractions of cis and vinyl configurations.

CAS No.: 9003-55-8.

The rubber is protected by a staining stabiliser system.

**Production plant: Duque de Caxias -RJ - Brazil**

### Supply Form

Dark rubber bales wrapped in polyethylene foil.

### Raw Material Properties

Property	Nominal Value	Unit	Test Method
Volatile Matter	max. 0.50	% by wt	ASTM D 5668
Mooney Viscosity	50	ME	ASTM D 1646
Free soap	max. 0.5	% by wt	ASTM D 5774
Organic acid	5.1	% by wt	ASTM D 5774
Bound styrene	23.5	% by wt	ASTM D 5775
Oil content	27.2	% by wt	ASTM D 5774

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### Other Product Features

Property	Typical Value		
Solubility	Buna SE 1712 HN rubber is soluble in aliphatic hydrocarbons, styrene, toluene, tetrahydrofurane, cyclohexane, methylene chloride and 1,1,1-trichloro-ethane, and is insoluble in alcohols and water.		
typical values	density	0,94	g/cm <sup>3</sup>
	ash content	max. 0,5	% by wt
	trans 1,4-content	75	% by wt
	cis 1,4-content	10	% by wt
	vinyl 1,2-content	15	% by wt
Storage Life/Conditions	Buna SE 1712 HN should be stored in its original packaging in a cool, dry place at temperatures below 40°C. Exposure to light must be avoided and also other heat sources. Under suitable conditions the product is stable for 12 months.		
Packaging	Bale weight	35	kg
	Nominal crate weight	~1260	kg
Marking	Grade / Lot number / Crate number / Net weight		
Use	Buna SE 1712 HN is used where there is a need for low cost together with resistance to wear and tear, resistance to cracking and excellent processing conditions. It processes easily in extrusion and calendering, due to its heavy naphthenic oil content. It is used in tires, retread, conveyor belts, piping, hoses, tubings, carpets, moulded products in general and shoe soles.		
Product Safety	Literature on the health and safety aspects of this product has been published. Before working with this product, personnel must be familiarised with its hazards, proper use, and handling. The available information is summarised in the Safety Data Sheet.		

These raw material properties are typical and, unless specifically indicated otherwise, are not to be considered as delivery specification.

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