

## Butadiene rubber - BR

### CHARACTERISTICS

SYNTECA® 63 is a grade of butadiene rubber. It is produced by a technology of polymerization in solution, based on neodymium catalyst. Contains approximately 97% of cis structure. Does not contain any extender oil and is stabilized by staining antioxidant.

### GENERAL REQUIREMENTS

Bales of synthetic rubber SYNTECA® 63 should be close to dimensions 720x360x180 mm. Presence of any mechanical impurities is not permitted.

### TECHNICAL PARAMETERS

#### RUBBER TECHNICAL PARAMETERS

Parameters	Units	Values	Test methods
Mooney viscosity ML 1+4 (100°C) – massed	°ML	58 ÷ 68	ISO 289
Volatile matters	% wt.	max. 0,8	ISO 248
Total ash	% wt.	max. 0,7	ISO 247
1,4 cis structure content	%	min. 96	ISO 12965
Antioxidant content	% wt.	min. 0,3	Own method

#### PARAMETERS OF THE VULKANIZATE

Parameters	Units	Values	Test methods
ML	dNm	2,5 ÷ 4,5	ISO 6502
MH	dNm	19,5 ÷ 23,5	ISO 6502
Ts1	min.	1,5 ÷ 3,0	ISO 6502
Tc90	min.	7,5 ÷ 12,5	ISO 6502
Mooney of test compound ML 1+4 (100 °C)	°ML	85 ÷ 110	ISO 289

#### STANDARD RUBBER COMPOUND COMPOSITION

Vulcanometric parameters in the table relate to the properties of the Standard Testing Compound of BR SYNTECA 63.

BR SYNTECA® 63 is tested using standard laboratory chemicals and procedures according to BS ISO 2476:2009 - C2 using a laboratory two roll-mill and carbon black - IRB 7. The MDR 2000E Rotorless Cure Meter is used for the measuring of vulcanizing characteristics (1.7 Hz, ± 0.5 ° arc, 160 °C).

Guaranteed values of relevant technical parameters of the product are each time agreed upon in the sales contract. The certificate of analysis containing data on properties of the finished product is issued for each shipping lot/delivery. Scope of the testing which is covered by the quality certificate is each time agreed upon in the sales contract.

### PACKAGING

SYNTECA® 63 is supplied in a form of rubber bales weighing 33 kg (± 0.5 kg). Each bale is wrapped in PE film, which is an integral part of the product and on which labeling of a specific colour relating to the respective rubber grade is present. Melting point of the foil is max. 109°C.

The bales are laid into returnable metal boxes. Net weight of each complete box is about 1200 kg.

Each pallet bears a self-adhesive label on which manufacturer's name, product name and grade, production lot number, net and gross weight, production date and labeling required by relevant regulations (if needed) are given.

#### Synthos PBR s.r.o.

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## TRANSPORTATION

SYNTECA® 63 is typically transported in covered road trucks, in covered railway carriages and in standard shipping containers.

SYNTECA® 63 is not a dangerous material to transport.

## STORAGE

Product should be stored in sheltered conditions away from direct sunlight, at least 2 meters away from radiant heating elements and the temperature should not exceed 30°C. The guaranteed shelf life for SYNTECA® 63 under the above-mentioned conditions is twelve (12) months from the date of production.

## APPLICATION

SYNTECA® 63 is appropriate for rubber compounds used in the production of a car and truck tires, as well as various technical rubber articles. Due to its low polydispersity and glass transition temperature, it is preferred for compounds for low rolling resistance tires.

The product is not approved for production of rubber articles coming into contact with food or drinking water.

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*This document is of an informative character. The information given herein is based on the present state of our knowledge and experience. It makes neither product properties nor qualitative parameters guarantee and cannot be used as a basis of any claims. The information provided cannot be used for any mixtures with any other substances. Product should be transported, stored and used in accordance with valid regulations and good occupational hygiene practice.*

*Making use of the information as well as product application is beyond the producer control and determination of the safe conditions of use is the sole responsibility of a customer.*

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The logo for Synthos RUBBERS features the word "synthos" in a blue, lowercase, sans-serif font, with the letter "o" highlighted in green. Below it, the word "RUBBERS" is written in a blue, uppercase, sans-serif font with a stylized, spaced-out appearance.