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in North America  
please visit [tsr.arlanxeo.com](http://tsr.arlanxeo.com)  
or contact us at 1-800-447-6202



## TIRE & SPECIALTY RUBBERS

### ARLANXEO

**ARLANXEO is a world-leading synthetic rubber company with a presence at 20 production sites in nine countries.**

ARLANXEO's core business is the development, manufacturing and marketing of high-performance rubber for use in the automotive, tire, construction and oil and gas industries, among others. ARLANXEO is divided into two separate business units: Tire & Specialty Rubbers and High Performance Elastomers.

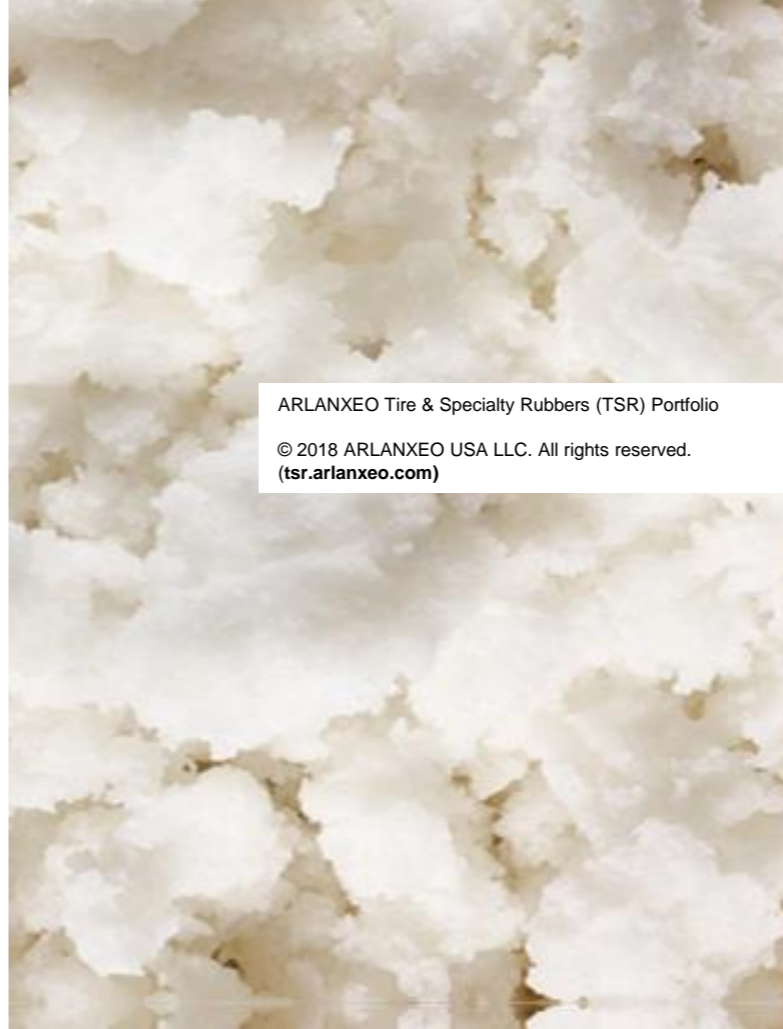
ARLANXEO was established in April 2016 as a joint venture of LANXESS, a specialty chemicals company, and Saudi Aramco, a global petroleum and chemicals enterprise. In August 2018, Saudi Aramco signed an agreement to purchase LANXESS' 50 percent share to become the sole owner of ARLANXEO.

### Business Unit Tire & Specialty Rubbers

The Tire & Specialty Rubbers (TSR) business unit of ARLANXEO is one of the world's leading suppliers of high-quality synthetic rubbers for the tire industry and for other highly demanding industrial sectors. With a global production footprint, TSR has the scale needed to tackle supply driven opportunities throughout the entire supply chain. We offer a broad portfolio of versatile butyl and butadiene-based rubbers that are predominantly used in the production of tires. While our halogenated butyl rubber products are used for the air-tight innerliner layer of the tire, our solution styrene butadiene rubber and neodymium butadiene rubbers are used in treads, side walls, and other elements of the tire. Also included in our portfolio are general purpose emulsion styrene butadiene rubbers. In addition, our products are the materials of choice for a wide-variety of specialty non-tire elastomer applications where purity, air impermeability and stringent requirements are called for including medical closures, golf balls, plastic modification, adhesives, and chewing gum.

### Intensive Cooperation With Customers

As the inventor of synthetic rubber, we are still at the forefront of innovation and production. With research and development centers around the world, we are working closely with our customers to develop products, processes and solutions that meet their continually changing needs. This, coupled with our excellent reputation and our reliable deliveries, provides a solid basis for growing our strategic co-operations and our long-term personal contacts, while striving to establish excellent client relationships.



ARLANXEO Tire & Specialty Rubbers (TSR) Portfolio

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**Health and Safety Information:** Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the ARLANXEO products mentioned in this publication. For materials mentioned which are not ARLANXEO products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., *safety data sheets and product labels*. Consult your ARLANXEO representative or contact the Product Safety and Regulatory Affairs Department.

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# ARLANXEO

## Performance Elastomers

### TIRE & SPECIALTY RUBBERS PRODUCT PORTFOLIO 2018



**BUTYL AND HALOBUTYL RUBBER**

**Butyl Rubber (IIR)**

Name	Plant	Mooney <sup>1</sup> (MU)	Unsaturation (mol%)
X_Butyl® RB 100	ZWI	33	0.90
X_Butyl® RB 301	SAR, ZWI, SGP	51	1.85
X_Butyl® RB 402	SAR, ZWI	33	2.25
X_Butyl® RB 101-3	SAR, SGP	51	1.75

**Bromobutyl Rubber (CIIR)**

Name	Plant	Mooney <sup>1</sup> (MU)	Halogen Content (wt%)
X_Butyl® BB 2030	SAR, ZWI, SGP	32	1.80
X_Butyl® BB 2040	SAR, ZWI	39	1.80
X_Butyl® BB X2	SAR, ZWI, SGP	46	1.80

**Chlorobutyl Rubber (CIIR)**

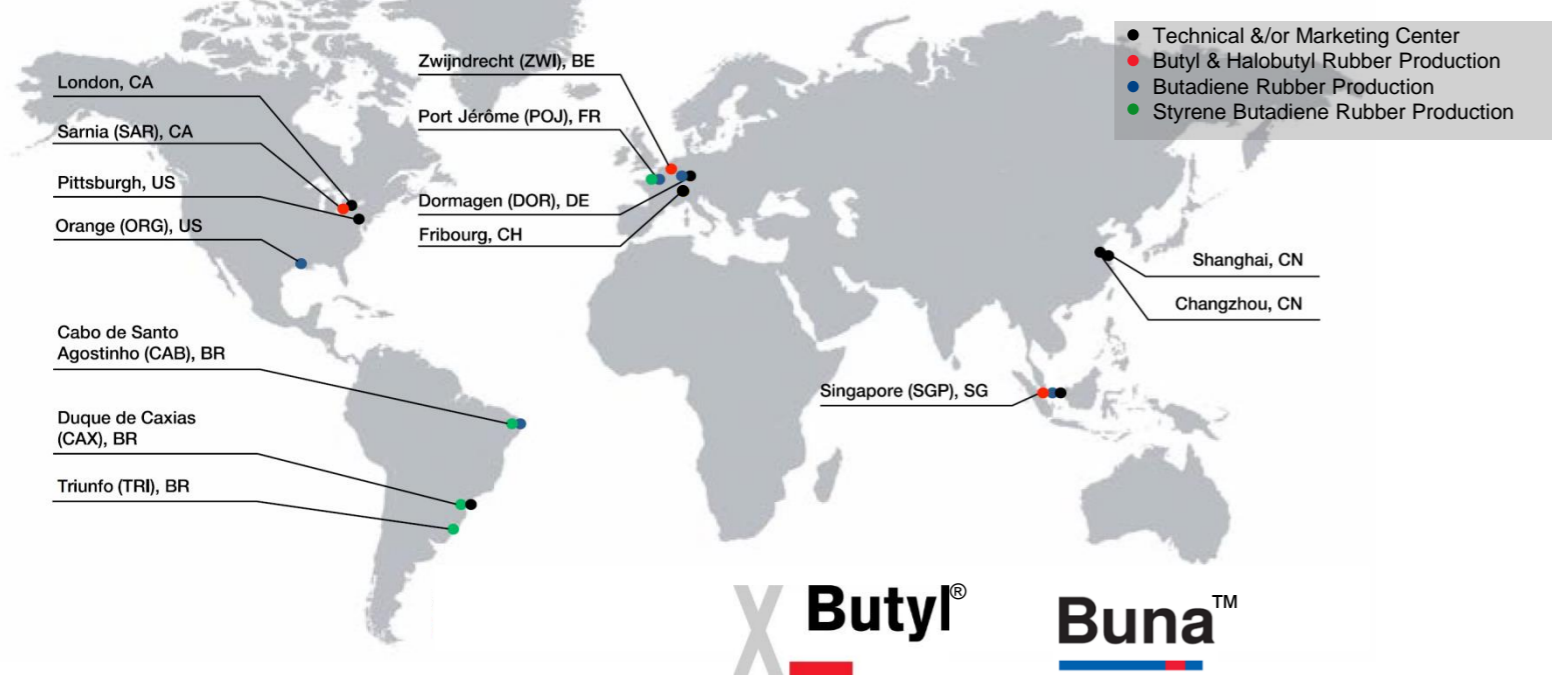
X_Butyl® CB1240	SAR, ZWI	38	1.25
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<sup>1</sup>ML (1+8) @ 125 °C

**ARLANXEO TSR**

- has a true global footprint with state of the art plants and first class technical support in Europe, Asia and the Americas
- offer a comprehensive portfolio of (X)IIR, BR and SBR products
- has extensive and proven rubber know-how for tire production and non-tire applications like adhesives, golf balls, and medical stoppers among others

**TIRE AND SPECIALTY RUBBERS GLOBAL FOOTPRINT**



**BUTADIENE RUBBER**

**Neodymium Butadiene Rubber (Nd-BR)**

Name	Plant	Mooney <sup>2</sup> (MU)	Remark
Buna™ CB 22	ORG, DOR, POJ, SGP,CAB	63	highly linear
Buna™ CB 24	ORG, DOR, POJ, SGP, CAB	44	linear
Buna™ CB 25	DOR	44	long chain branched
Buna™ CB 29 MES	DOR	37	MES-oil extended
Buna™ CB 29 TDAE	DOR	37	TDAE-oil extended

**Easy Processing Neodymium Butadiene Rubber (EZ Nd-BR)**

Buna™ Nd 22 EZ	DOR	63	modified & long chain branched
Buna™ Nd 24 EZ	DOR	44	modified & long chain branched

**Cobalt Butadiene Rubber (Co-BR)**

Buna™ CB 1221	ORG	53	branched
Buna™ CB 1203	ORG	43	branched
Buna™ CB 1220	ORG	40	highly branched

**Lithium Butadiene Rubber (Li-BR)**

Buna™ CB 45	ORG, CAB	45	linear
Buna™ CB 60	POJ	60	star branched
Buna™ CB 55 NF	POJ	55	linear
Buna™ CB 70	CAB	70	linear
Buna™ CB 55 H	CAB	54	linear
Buna™ CB 55 L	CAB	51	linear

**BUTADIENE RUBBER FOR HIPS**

**Lithium Butadiene Rubber for HIPS (Li-BR)**

Name	Plant	Mooney <sup>2</sup> (MU)	S.V. (mPas)	TNPP Free
Buna™ CB 550	ORG	54	163	no
Buna™ CB 550 T	ORG	53	169	yes
Buna™ CB 380	ORG	38	90	no
Buna™ CB 380 IT	ORG	38	90	yes
Buna™ CB 70 GPT	CAB	69.5	250	yes
Buna™ CB 55 GPT	CAB	53	168	yes
Buna™ CB 530 T	POJ	68	250	yes
Buna™ CB 550 T	POJ	54	163	yes
Buna™ CB 550 IP	POJ	54	163	yes
Buna™ CB 565 T	POJ	60	44	yes

**Neodymium Butadiene Rubber for HIPS (Nd-BR)**

Buna™ CB 728 T	ORG	44	160
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<sup>2</sup>ML (1+4) @ 100 °C

**STYRENE BUTADIENE LATEX**

**Styrene Butadiene Latex**

Name	Plant	Solids (%)	Brookfield Visc.	Block Styrene (%)
Taktene® Latex S62	CAX	68	800	24
Taktene® Latex S62F	CAX	68	800	24

**EMULSION STYRENE BUTADIENE RUBBER**

**Emulsion Styrene Butadiene Rubber (ESBR)**

Name	Plant	Mooney <sup>3</sup> (MU)	Styrene (%)	Oil (phr)
Buna™ SE 1500	CAX	52	23.5	-
Buna™ SE 1502 H	TRI	53	23.5	-
Buna™ SE 1502 L	TRI	49	23.5	-
Buna™ SE 1793	CAX	51	23.5	TRAE (37.5)
Buna™ SE 1799	CAX	55	40.0	TRAE (37.5)
BUNA™ SE 1723	CAX	50	23.5	TDAE (37.5)
BUNA™ SE 1739	CAX	53	40.0	TDAE (37.5)
BUNA™ SE 1783	CAX	49	23.5	RAE (37.5)

<sup>2</sup>ML (1+4) @ 100 °C

<sup>3</sup>MML (1+4) @ 100 °C

**SOLUTION STYRENE BUTADIENE RUBBER**

**Low/Medium Vinyl Solution Styrene Butadiene Rubber (LV/MV SSBR)**

Name	Plant	Mooney <sup>2</sup> (MU)	Styrene (%)	Oil (phr)
Buna™ SL 4525-0	CAB	45	25	-
Buna™ SL 4518-4	CAB	45	18	HN (37.5)
Buna™ SL 7518-4	CAB	75	18	HN (15.0)
Buna™ SBR 2300	BAS*, LOU**	54	27	-
Buna™ SBR 2353	BAS*, LOU**	54	27	MES (34.0)

**High Vinyl Solution Styrene Butadiene Rubber (HV SSBR)**

Name	Plant	Mooney <sup>2</sup> (MU)	Vinyl (%)	Styrene (%)	Oil (phr)
Buna™ VSL 4526-2	POJ	50	44.5	26	37.5 (TDAE)
Buna™ VSL 4526-2 HM	POJ	62	44.5	26	37.5 (TDAE)
Buna™ SBR 2153	BAS* LOU**	63	43.5	25	10 (MES)

**High Styrene Solution Styrene Butadiene Rubber (HS SSBR)**

Name	Plant	Mooney <sup>2</sup> (MU)	Vinyl (%)	Styrene (%)	TDAE (phr)
Buna™ VSL 2538-2	POJ	50	25	38	37.5
Buna™ VSL 2438-2 HM	POJ	80	24	38	37.5
Buna™ VSL 3038-2 HM	POJ	80	30	38	37.5
Buna™ SBR 2382	BAS*	68	14	40	10

**Functionalized Solution Styrene Butadiene Rubber (FXN SSBR)**

Name	Plant	Mooney <sup>2</sup> (MU)	Vinyl (%)	Styrene (%)	TDAE (phr)
Buna™ FX 3234A-2	POJ	65	32	34	37.5
Buna™ FX 3234A- 2 HM	POJ	80	32	34	37.5

**Block Styrene Butadiene Rubber (SB SSBR)**

Name	Plant	Mooney <sup>3</sup> (MU)	Styrene (%)	Block Styrene (%)
Buna™ BL 30-4548	CAB	45	48	30
Buna™ BL XP 7409	CAB	50	48.5	34.5

<sup>2</sup>ML (1+4) @ 100 °C

\*produced by Michelin in Bassens, France

\*\*produced by Michelin in Louisville, Kentucky

<sup>3</sup>MML (1+4) @ 100 °C

