

## X\_BUTYL® HALOBUTYL FOR MEDICAL APPLICATIONS: SULPHUR CURE



The demands by the medical and pharmaceutical sectors on elastomers and their compounds and vulcanizates are extremely high. Halogenated X\_Butyl® is widely used in pharmaceutical rubber products, such as closures for infusion containers, injection vials, lyophilization and blood collection tubes.

Manufactured to stringent requirements, pharmaceutical closures often come into direct contact with pharmaceutical products, either dissolved or in other forms. Therefore, they must comply with existing

standards and regulations relating to the contact of rubber articles with pharmaceuticals. Halogenated X\_Butyl® is generally preferred, because they ensure adequate protection of sterile pharmaceutical products against external contamination during storage and use. Halogenated X\_Butyl® grades are also found as O-rings and gaskets in a variety of aerosol containers, personal care and cosmetic spray pumps and inhalers. In addition, they are used in plungers for applications such as infusion pumps, pre-filled syringes, insulin injectors and dental anesthetics.

### PRODUCT PROPERTIES

Grade	X_Butyl® BB 2030	X_Butyl® BB X2	X_Butyl® CB 1240
Mooney Viscosity (ML 1+ 8, 125 °C, MU)	32	46	38
Halogen (wt%)	1.8	1.8	1.25
Stabilizer (wt%)	1.3	1.3	n/a

### TYPICAL COMPOUND FORMULATION: S-CURE

Ingredient	phr
X_Butyl® BB 2030	100
Calcined Clay	85
Sulphur	1.5
MgO	3

Mechanical Properties	Unit	Typical Value*
Hardness	(ShA)	50
Tensile Strength	(MPa)	8.2
Modulus 100%	(MPa)	1.7
Modulus 300%	(MPa)	2.7
Elongation at break	(%)	660
Compression Set (24 h/70 °C)	(%)	25

\*These items are provided as general information only. They are approximate values and are not considered part of the product specifications. Please contact your regional representative for additional information.

# TIRE AND SPECIALTY RUBBERS GLOBAL FOOTPRINT



## WE ARE HAPPY TO SUPPORT YOUR BUSINESS

### NAFTA

#### Technical Service

Judy Douglas

E-mail: [judy.douglas@arlanxeo.com](mailto:judy.douglas@arlanxeo.com)

Phone: +1 412 809 3547

#### Sales

John Sawaya

E-mail: [john.sawaya@arlanxeo.com](mailto:john.sawaya@arlanxeo.com)

Phone: +1 412 809 1530

### EMEA

#### Technical Service

Luc ter Bogt

E-mail: [luc.terbogt@arlanxeo.com](mailto:luc.terbogt@arlanxeo.com)

Phone: +49 221 8885 3998

#### Sales

Marco Eira

E-mail: [marco.eira@arlanxeo.com](mailto:marco.eira@arlanxeo.com)

Phone: +41 26 422 8354

### APAC

#### Technical Service

Esther Han

E-mail: [esther.han@arlanxeo.com](mailto:esther.han@arlanxeo.com)

Phone: +65 6725 5709

#### Sales

JooSang Kim

E-mail: [joosang.kim@arlanxeo.com](mailto:joosang.kim@arlanxeo.com)

Phone: +65 6725 5872

### LATAM

#### Technical Service

Marcus Moutinho

E-mail: [marcus.moutinho@arlanxeo.com](mailto:marcus.moutinho@arlanxeo.com)

Phone: +55 21 2677 1219

#### Sales

Sergio Botafogo

E-mail: [sergio.botafogo@arlanxeo.com](mailto:sergio.botafogo@arlanxeo.com)

Phone: +55 21 2677 1344

Please contact us for additional information or visit us at  
[www.tsr.arlanxeo.com](http://www.tsr.arlanxeo.com)

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Note: The information contained in this publication is current as of May 2017.

Please contact ARLANXEO USA LLC to determine if this publication has been revised.