HIGH-PERFORMANCE SILICONE ELASTOMERS FOR RAILWAY APPLICATIONS.

- Safely applicable
- Highly flexible
- Flame resistant
- Certified

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HIGH-PERFORMANCE SILICONE ELASTOMERS FOR RAILWAY APPLICATIONS.

RELIABLE – SAFE – LONG-LASTING: FLEXCOMP® SILICONES.

Silicones of the Series FLEXCOMP[®] RB are compounds with extraordinary properties, which predestine them especially for applications in the railway sector.

FLEXCOMP® Silicones are

- Permanently elastic, no melting or creeping
- ▶ Resistant to ozone, UV radiation, salt water, industrial climate and weathering; repels water and dirt
- Resistant to cold (down to -110°C) and heat (up to 300°C).

SPECIAL BENEFITS THAT FLEXCOMP® OFFERS THE RAILWAY INDUSTRY.

FLEXCOMP[®] Silicones from M+S Silicon are ground-breaking developments of a market leader of silicones in railway applications:

- Low flammability
- Extremely low smoke density when burning
- No toxic fumes
- Free of brominated flame retardants
- Broad portfolio
- Certifications of all relevant norms available (see table).

RANGE OF APPLICATION OF FLEXCOMP® IN THE RAILWAY SECTOR.

FLEXCOMP® ist being processed into extrudates, calendered sheets and moulded parts, and also finished parts:

- Edge and finger protection profiles, e.g. for doors
- Sealing profiles, frames, or rings, e.g. for windows, rooflights
- Sealings for equipment, machines, motors, …
- Sheetings / laminates, e.g. for bellows and flooring.

FLEXCOMP[®] SILICONE COMPOUNDS

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FLAME-RESISTANT SILICONES FOR THE RAILWAY INDUSTRY – CERTIFIED CLASSIFICATIONS.

	NFF 16101:1988	DIN 5510-2: 2009	EN 45545-2:2013	others
FLEXCOMP [®] Series RB-R: flame resistant, universally applicable				
RB-R 30130	F0, 13			
RB-R 50010	F0, 12	S4, SR2, ST2	R22/23: HL3	BS 6853:1999 / UNI CEI 11170-3: 2005
RB-R 60010-03		S4, SR2, ST2	R22/23/24:HL3	
RB-R 70020	F0, 12	S4, SR2, ST2	R22/23: HL3	BS 6853:1999 / UNI CEI 11170-3: 2005 / UNE 23727:1990 / NFPA 130:2010
RB-R 70030-02	F1, I2			
RB-R 75020	F0, 11	S4, SR2, ST2	R22/23:HL3	BS 6853:1999
RB-R 80010		S4, SR2, ST2		
FLEXCOMP® Specialities: a selection				
High tear strength with flame retardants STRB 25130-02			R22/23:HL3	
High tear strength with flame retardants STRB 60130-01	F1, I2	S4, SR2, ST2	R22/23: HL3	BS 6853:1999 NFPA 130:2010
Antistatic ME-A 65116		S4, SR2, ST2	R22/23:HL3	
Flame resistant silicone foam, density 0.4 g/cm ³ X RB-R 50010	F1, I4	S4, SR2, ST2	R22/23: HL3	BS 6853:1999 / UNI CEI 11170-3: 2005 NFPA 130:2010

Conformities, e.g. according to UL 94, and other details will be answered by our customer service.



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FLEXCOMP[®] THE COORDINATES.

FLEXCOMP® compounds offer an extremely broad range of properties. A selection:

Hardness	5-95 Shore®A		
Temperature Range	-110°C bis +300°C (-166°F bis +572°F)		
Density	0.95 – 2.30 g/cm ³ (geschäumt 0.23 - 1.10 g/cm ³)		
Tensile Strength (breakpoint)	3 – 13 N/mm² (MPa)		
Tear Strength (Notch Resistance)	10 – 63 N/mm (ASTM D 624 B) 3 – 25 N/mm (DIN 53507)		
Elongation at Break	100 – 1500 %		
Rebound Resilience (Elasticity)	25 – 75 %		
Compression Set (Permament Deformation)	50 – 0 % (175°C, 22h) 20 – 3 % (125°C, 22h) 10 – 0 % (100°C, 22h)		
Flammability Classification (examples)	EN 45545-2, BS 6853, NFPA 130, DIN 5510-2, NFF 16101, UNI CEI 11170-3, UNE 23727, UL 94		

FLEXCOMP® TYPE SERIES WITH ESPECIALLY INTERESTING PROPERTIES:

▶ World record holder in tensile strength for silicones, basis for our new developments **FLEXCOMP® STR** FLEXCOMP® STRB FLEXCOMP[®] RH

Outstandingly high heat resistance, for applications close to motors etc.

Fluoro silicones with exceedingly increased chemical resistance

Extremely resistant to cold, for applications in cooling

FLEXCOMP® RC

- **FLEXCOMP® F**
- FLEXCOMP[®] X und FX Foamed silicones and fluoro silicones for reduced weight and highly compressible items

Disclaimer: The mentioned figures are intended as a guide and should not be used in preparing specifications. They have been taken from pressed plates and represent our current status of knowledge. They do not liberate the customer from careful end-use application tests, neither from the duty to check on violations of proprietary rights. We reserve the rights for alterations at any point.

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