BIW Isolierstoffe GmbH

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INDUSTRIES AND APPLICATIONS

www.biw.de

Certified management system by:

- IATF16949
- ISO9001
- IS013485
- IS014001
- IS050001



TECHNICAL DATASHEET



HighQSil[®] FR Railway 70

Key properties

- Silicone rubber with good thermal and mechanical properties, designed for use in railway applications
- Chlorine free peroxide cured
- Resistant to UV and ozone (resistant to radiation and non-aging)
- Resistant to many chemicals
- Very good fire resistance
- No toxic combustion gases
- Free of plasticisers



Application temperature



Product description

New in our HighOSil® range - HighOSil® FR Railway 70 meets the requirements of DIN EN 45545-2 R22/R23: HL3.

Material properties

Property	Standard	Result
Hardness [Shore A]	DIN 53505 DIN EN ISO 868	70 ± 5
Density [g/cm³]	DIN 53479 ISO/R 1183	1,33
Tensile Strength [MPa]	DIN 53504 ISO/DIS 37	7
Elongation @ Break [%]	DIN 53504 ISO/DIS 37	320
Tear Strength [N/mm]	ASTM D624B	20

(Continued on the next page)

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All information shown in this data sheet is based on our testing and experience and is to the best of our knowledge. It represents an accurate presentation of the product. The data are typical values and are not to be used as the end use specification. It is the customers' responsibility to test the suitability of the material for their application. Any recommendations for use are for guidance only and are offered without warranty or guarantee. Subject to change without notice.

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INDUSTRIES AND APPLICATIONS



HighQSil® FR Railway 70

Material properties

Property	Standard	Result
Colour		White or coloured

Burning behaviour acc. to EN 45545-2:2020

Test method	Parameter / Unit	Result	Classification
EN ISO 4589-2 LOI	Oxygen index (%)	39	R22/R23: HL3
EN ISO 5659-2 (25 kW/m ²)	Ds max.	74	R22/R23: HL3
EN 17084 V1 (25 kW/m ²)	CIT (G. 8min)	0.02	R22/R23: HL3