

EN45545 Fire Protection Certificates on Angst + Pfister products



The pan-European mandatory fire protection standard EN45545 unifies the European legal requirements. It provides that all material over 100g of weight needs to be subjected to a fire test. EN45545 replaces all previously valid national regulations from March 2016 onwards.

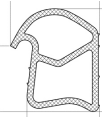
APSOvib® Antivibration Technology

Part type		Material	Hardness ShA +/-5	DIN EN45545
Antivibration elements for bogies (layer springs, primary buffers, round and stop buffers)		NR	50 ShA	R24: HL2
		NR(BR)	70 ShA	R24: HL3
Floor supports		CR	45 ShA	R10: HL2
		CR	49 ShA	R9: HL3, R10: HL3
		CR	70 ShA	R9: HL3, R10: HL3
		EPDM	46 ShA	R10: HL3
Floor supports – Metal Cushion		Metal Cushion		> HL3
Floor supports – PUR – metal		APSO PUR® L55 (12.5 mm)		R10: HL3

APSOseal® Sealing Technology

Part type	Production technology	Material	Type	Hardness ShA +/-5 (Density g/cm³)	DIN EN45545	
Molded parts, molded flat gaskets, O-rings		Compression	EPDM	Compact	60 ShA	R1: HLR2
			EPDM	Compact	65 ShA	R22: HL2, R23: HL2
			EPDM	Compact	70 ShA	R22: HL3, R23: HL3
			VMQ	Compact	40 ShA	R22: HL3, R23: HL3
			VMQ	Compact	70 ShA	R22: HL2, R23: HL3
Flat gaskets		Punching	EPDM	Compact	70 ShA	R22: HL3, R23: HL3
			VMQ	Foam	(0,16 g/cm³)	R22: HL3, R23: HL3
			VMQ	Foam	(0,208 g/cm³)	R22: HL2, R23: HL2
			VMQ	Foam	(0,35 g/cm³)	R22: HL3, R23: HL3
			VMQ	Foam	(0,43 g/cm³)	R22: HL3, R23: HL3
			CR	Foam – closed cells	(0,195 g/cm³)	R24: HL3

APSOseal® Sealing Technology

Part type	Production technology	Material	Type	Hardness ShA +/-5 (Density g/cm³)	DINEN45545	
Elastomeric profiles		Extrusion	EPDM	Compact	50 ShA	R22: HL2, R23: HL2, R24: HL2
			EPDM	Compact	60 ShA	R22: HL3, R23: HL3, R24: HL3
			EPDM	Compact	65 ShA	R22: HL3, R23: HL3
			EPDM	Compact	70 ShA	R22: HL3, R23: HL3
			EPDM	Compact	75 ShA	R22: HL3, R23: HL3
			EPDM	Compact	77 ShA	R22: HL3, R23: HL3
			EPDM	Foam	(0,8 g/cm³)	R22: HL2, R23: HL2
			EPDM	Foam – mixed closed and open cells	(0,8 g/cm³)	R22: HL2, R23: HL2
			VMQ	Compact	40 ShA	R22: HL3, R23: HL3
			VMQ	Compact	50 ShA	R22: HL3, R23: HL3
			VMQ	Compact	60 ShA	R22: HL3, R23: HL3
			VMQ	Compact	70 ShA	R22: HL3, R23: HL3
			VMQ	Foam – closed cells	(0,35 g/cm³)	R22: HL3, R23: HL3
			VMQ	Foam – closed cells	(0,55 g/cm³)	R22: HL3, R23: HL3

APSOfluid® Fluid Handling Technology

Part type	Product	Material	DIN EN45545
Industrial hoses	Conveyance hose for water	EPDM	R22: HL3 R23: HL3
	Cable protection hose	EPDM and NBR	R22: HL3 R23: HL3
	Cable protection hose	Silicon	R22: HL3 R23: HL3
	Air brake hose	CR	R22: HL3 R23: HL3
Hydraulic hoses	Hydraulic hose Type 2TE	NBR/EPDM	R22: HL3 R23: HL3
	Hydraulic hose Type 1SC	NBR/EPDM	R22: HL3 R23: HL3
	Hydraulic hose Type 2SC	NBR/EPDM	R22: HL3 R23: HL3
	Hydraulic hose Type 1SN	NBR/EPDM	R22: HL3 R23: HL3
	Hydraulic hose Type 2SN	NBR/EPDM	R22: HL3 R23: HL3
Shrink hoses	Shrink hose	Polyolefin	R22: HL3 R23: HL3
Metal hoses	ASSIWELL® metal hose	Stainless Steel	> HL3

APSOplast® Engineering Plastics Technology

Material	Colour	DIN EN45545
UP-HLM FR Hand layup GRP Laminate		R1, R2, R3: HL2
UP-GRP Pultrusion Profile		R22, R23, R24: HL3
UP-GM 203	Red/White	R1, R2, R3, R6, R22, R23, R24: HL3 R7, R17: HL2
EP-GC 202	Natural (Yellow/Brown)	R1, R2, R3, R11, R12, R22, R23, R24: HL3 R7, R17: HL2
PE-UHMW FR	Black	R7, R22, R23, R24: HL2
PA 66 FR	Black	R24, R26: HL3
PA 6 FR	White/Black/Coloured	R22, R23, R24, R25, R26: HL3
PA 6 FR Extrusion Profile	Coloured	R22, R23, R24, R26: HL3
PC FR	Transparent	R1: HL1, R3: HL2 R4, R22, R23, R24: HL3
Shrink Hose Polyolefin	Black	R22:HL3 R23:HL3

In addition to this range of products we can supply you with special and/or customized products upon request at any time: consult us!

Contact

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