

TECHNICAL DATA SHEET

KISO 501 ALU-BUTYL

Date: 10/12/2018

Version 6

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Product

KISO 501 ALU-BUTYL is a rubber based extruded and self-adhesive butyl sealing strip with alufoil.

Key Features

- Good adhesion to metal, glass, wood and concrete
- Leaves hands and surfaces clean
- No fumes, solvent free and free from harmful substances
- Water and air repellent
- Noise reducing
- Non hardening, remains flexible throughout service life

Areas of application

- Seals not exposed to the environment
- Temporary remedial work
- Metal constructions
- Sealing of duct flanges in HVAC systems

Technical Features, Butyl: KISO 558 BUTYL Strong Adhesion

	Unit	Nominal Value	Test Method
Compression 50%	kN/m ²	100	KISO 5
Peel Adhesion	N/cm	>19	KISO 13
Strain Peak Force, Fmax	kN/m ²	35	KISO 5
Density	g/cm ³	1.50	DS/ISO 2781A
Needle Penetration (23°C)	dmm	80	ASTM D 5 (adjusted)
Service Temperature Range	°C	-30 - +80	

KISO - KISO Test Method

Technical Features, Aluminium Foil

	Thickness (Micron)		Tolerance	
PET	12		+/- 10%	
Aluminium Foil	18		+/- 10%	
PET	12		+/- 10%	
	Value	Unit	Test Conditions	Test Method
Oxygen Barrier O ₂	<0.1	cm ³ /m ² /24h	0% Rh, 23°C	ASTM D3985
Water Barrier WVTR	<0.1	g/m ² /24h	90% Rh, 38°C	ASTM F1249

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Standard Dimensions and Packaging

KISO 501 ALU-BUTYL is supplied as a preformed tape with aluminium foil on a siliconized LDPE foil. The product is offered in various dimensions. The number of meter per roll and rolls per carton is determined by product dimensions and customer requirement.

The aluminium foil is 5 mm wider than the nominal width of the butyl.

Available colours: Black, white, grey and blue

Application

Application temperature: > 5°C (15°C - 25°C recommended)

Surface preparation: All surfaces MUST be clean, dry and free from dust, grease and loose materials. Propan-2-ol is recommended for cleaning (smooth surfaces). Make sure the surface is allowed to dry prior to application of the butyl strip. Porous surfaces should be pre-treated with a suitable primer.

Application: Apply by hand directly from the reel; remove the protection paper and apply the butyl on the surface. Press firmly.

Shelf life: At least 2 years from date of manufacture under cool and dry storage conditions.

Service life: Estimated 30 years*.

Disposal: The product is not biodegradable, do not disperse it in the environment after use.

*Depending on application

Tolerances – butyl and aluminium foil

Rectangular Profiles:	Width (mm)	Unit	Tolerance (+/-)*
	- 2.5	mm	0.35
	2.6 - 4.0	mm	0.40
	4.1 - 6.3	mm	0.50
	6.4 - 10	mm	0.70
	11 - 16	mm	0.80
	17 - 25	mm	1.00
	26 - 150	mm	2.00
	*DIN 7715 T3 class E2		
	Thickness: +/- 10%*		
	*DIN 7715 T3 class E1 or better		
Length (All Profiles):	+/- 1.5%		

More information

For further information, please contact our Sales Team or send us an e-mail at kiso@kiso.dk

Note:

The information in this Technical Data Sheet is based on laboratory tests performed at KISO. The Technical Features are to be regarded as target values. Properties quoted are typical and do not constitute a specification nor an explicit or implicit warranty. Due to the large variability in application conditions it is advisable that the product is tested by the user to establish suitability for the intended use.