



Hydrophobic rotoSLEEVE

ROTOMETAL
we are for print

Safer printing

rotoSLEEVE Hydrophobic are sleeves designed for printing processes that require frequent changeovers and use double-sided foams. They offer several advantages, including:

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Faster Changeovers: Their design allows for easy assembly and disassembly of double-sided foams, improving printing house efficiency.
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Improved Dimensional Stability: The hydrophobic outer layer reduces moisture absorption, leading to better dimensional stability compared to standard sleeves.
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Suitable for Water & UV Inks: These sleeves are compatible with water-based and UV inks.
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High Print Quality: The dimensional stability contributes to achieving high-quality printing results.

Key features

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Hydrophobic Barrier: Achieved through a combination of physical and chemical treatments on the outer layer. This repels moisture and improves dimensional stability.
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Specially Activated Surface: The external layer is prepared for the hydrophobic treatment, enhancing its effectiveness.
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Composite Construction:

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Base Layer: Glass fiber reinforced epoxy resin with Vulkollan (polyurethane rubber) for strength and thermal resistance (up to 110°C).

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Volume Layer: Lightweight PET honeycomb core for reduced weight.

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Hydrophobic Duroplast: Added to prevent moisture absorption.

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External Layer: Glass fiber reinforced polyester resin with UV and chemical treatment for additional strength and hydrophobic properties.
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Super Hydrophobic Properties: The outer layer repels water effectively.
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Special Lock: This lock design ensures a secure and reliable fit, minimizing wear and tear during operation.
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Concealed Fasteners under Protective Rubber: Having the fastening elements hidden beneath a protective rubber layer shields them from external impact and potential damage during handling or cleaning.



Technical information

Inner diameter	STORK list
Maximum printing repeat	1100 mm
Maximum width	1600 mm
Concentricity tolerance T.I.R	0.01 mm

Comparison:

	Rotometal	Competitor
Min/Max Length	300 mm - 1600 mm (2200 mm in December 2023)	350 - 2850 mm
Thickness	1,9 - 70 [mm] // 0.075" - 2.756"	1,9 - 70 [mm] // 0.075" - 2.756"
Shore D	70-80; 80-90 (according to customer's needs and press type)	only 75 Shore D
Working pressure	4 - 10 bar	6 - 10 bar
Operating temperature	90 degrees max	40 degrees max
Standard reference guidelines	OUR STANDARD: 1 longitudinal corresponding to the register notch. OPTIONAL: as many as requested: single double, central, longitudinal, to the sides	1 longitudinal corresponding to the register notch – 1 circumferential in centre
T.I.R.	0.01 mm	< 0.02 mm

Summary:

Overall, rotoSLEEVE Hydrophobic appears to be a solution for printing houses seeking to improve efficiency and print quality, particularly when working with double-sided foams and water or UV inks.



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