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TECHNICAL INFORMATION

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**TECHNICAL INFORMATION CONTENTS**

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## 1. TECHNICAL CHARACTERISTICS AS PER APPLICABLE STANDARD

### TECHNICAL CHARACTERISTICS

ISLIMM by INALCO is a non-toxic environmentally-friendly product compliant with European legislation in accordance with the current version of EU Regulation no. 305 of the EUROPEAN PARLIAMENT AND THE COUNCIL and specific standards.

All INALCO's first-choice products comply with and even surpass ISO standards 13006 and EN 14411.

INALCO also has an internal Quality Control System, which it applies to the whole manufacturing and storage process.



## 1. TECHNICAL CHARACTERISTICS AS PER APPLICABLE STANDARD

Technical characteristics ISO 13006 / GROUP Bla UNE - EN 14411 GROUP Bla		Reference standard	Required value	Mean value	
Physical characteristics	Water absorption	EN-ISO 10545-3	≤ 0,5 %	≤ 0,2 %	
	Breaking strength	 Standard thickness	EN-ISO 10545-4	≥ 700 N	Standard overtakes
			≥ 1300 N		
	Bending strength	EN-ISO 10545-4	≥ 35 N / mm <sup>2</sup>	Standard overtakes	
	Resistance to deep abrasion	EN-ISO 10545-6	≤ 175 mm <sup>3</sup>	≤ 135 mm <sup>3</sup>	
	Lineal thermal expansion	EN-ISO 10545-8	-	≤ 9 x 10 <sup>-6</sup> K <sup>-1</sup>	
	Thermal shock resistance	EN-ISO 10545-9	-	Resists	
	Mohs surface hardness	EN 101	Min. 5	5 - 9	
	Frost resistance	EN-ISO 10545-12	Required	Resists	
	Chemical characteristics	Resistance to household cleaning products and swimming pool aditives	EN-ISO 10545-13	GB Min.	Resists (GA)
Resistance to acids and bases in low concentration		EN-ISO 10545-13	As indicated by manufacturer	Resists (GLA)	
Resistance to staining		EN-ISO 10545-14	Class 3 Min.	Class 5	
Dimensional characteristics / Permissible deviation from work size	Length and width	EN-ISO 10545-2	± 0,6 % / ± 2,0 mm	± 0,6 % / ± 2,0 mm	
	Thickness	EN-ISO 10545-2	± 5 % / ± 0,5 mm	± 5 % / ± 0,5 mm	
	Warpages of edges	EN-ISO 10545-2	± 0,5 % / ± 1,5 mm	± 0,5 % / ± 1,5 mm	
	Wedging	EN-ISO 10545-2	± 0,6 % / ± 2,0 mm	± 0,6 % / ± 2,0 mm	
	Flatness	EN-ISO 10545-2	± 0,5 % / ± 2,0 mm	± 0,5 % / ± 2,0 mm	

## 2. TESTS CONDUCTED ON ISLIMM

### WATER ABSORPTION RATE [EN-ISO 10545-3]

This determines the product's water absorption rate (0.1%).

5	4	3	2	1
max				min

### STAIN RESISTANCE [EN-ISO 10545-14]

This determines the surface's tendency to absorb stains.

A	B	C	NATURAL AND BUSH-HAMMERED
max		min	

A	B	C	HIGH GLOSS POLISHED / MATT POLISHED
max		min	

### CHEMICAL RESISTANCE [EN-ISO 10545-13]

The surface is not affected following the application of different products, solvents, bleaches etc.

A	B	C	NATURAL AND BUSH-HAMMERED
max		min	

A	B	C	HIGH GLOSS POLISHED / MATT POLISHED
max		min	

### LIGHT RESISTANCE [DIN 51094]

A slab is exposed to a powerful 400 W light for 30 days, with no perceptible colour change or surface wear and tear.

5	4	3	2	1
max				min

### HEAT RESISTANCE [EN-ISO 10545-9]

It does not burn or undergo any change when subjected to 10 cycles of temperatures ranging from 15°C to 145°C.

5	4	3	2	1
max				min

### FROST RESISTANCE [EN-ISO 10545-12]

It is unaffected when subjected to over 100 freeze-thaw cycles of between +5°C and -5°C.

5	4	3	2	1
max				min

### THERMAL SHOCK RESISTANCE

A metal recipient with a temperature of 200°C is rested on a slab at a temperature of 15°C, with no resulting damage.

5	4	3	2	1
max				min

$$\text{min} = \frac{\text{Low resistance to test}}{\text{Mean result}}$$

$$\text{max} = \frac{\text{High resistance to test}}{\text{Optimum result}}$$



INDUSTRIAS ALCORENSES CONFEDERADAS S.A.

C/ San Salvador, 54

12110, Alcora, Castellón (España)

(+34) 964 368 000

[www.inalco.es](http://www.inalco.es) [www.inalcotrends.com](http://www.inalcotrends.com)

