

## TECHNICAL DATASHEET NESTAAN<sup>®</sup> POLYURETHANE SYSTEMS



NESTAAN® PQ012/45

Components	A-Component: NESTAAN <sup>®</sup> POLY PQ012/45		
	B-Component: NESTAAN <sup>®</sup> ISO 30		
Material description	2 component PIR pouring foam system.		
-	This system contains new generation blowing agents (HFO).		
Application	NESTAAN <sup>®</sup> PQ012/45 is a two component PIR foam system with		
	improved flow ability.		
Application areas	Industrial insulation of tanks, pipe insulations etc.		

Product properties			
	A-Component	B-Component	Unit
Specific mass 20°C	1170 – 1210	1210 – 1250	g/l
Viscosity 20°C	600 - 1000	150 - 250	mPa.s
Mixing ratio			
Parts by weight	100	104	
Parts by volume	100	100	

Typical foaming properties (handmix, 20°C, 3000 rpm)			
		Value	Unit
Reactivity	Cream time (CT)	$30 \pm 4$	S
	Gel time (GT)	125 ± 12	S
Density	Core density	45 ± 5	kg/m³

Packaging		
NESTAAN <sup>®</sup> POLY PQ012/45 can be supplied in		
Plastic cans	30 kg nett	
Metal drums	60 or 225 kg nett	
IBC's	1125 kg nett	
Bulk	23000 kg nett	
NESTAAN <sup>®</sup> ISO 30 can be supplied in		
Plastic cans	30 kg nett	
Metal drums	60 of 250 kg nett	
IBC's	1250 kg nett	
Bulk	23000 kg	

Shelf life and storage			
	A-Component	B-Component	Unit
Storage temperature	5 - 30	5 - 30	°C
Shelf life	3	6	months
(in closed, sealed packaging)			

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## Processing

This system can be used for all kinds of panels and other objects where a great flow is demanded. NESTAAN<sup>®</sup> PQ012/45 shows a good adhesion to most common facings, but the temperature of all parts in contact with the reacting foam should be at least 40°C to prevent delamination of the facings. Some facing materials like aluminum or stainless steel should be grinded or be treated with an adhesion promoting coating. In case of doubt the adhesion should be tested on the facing or equivalent materials. As a general rule the demoulding time is appr. 3 minutes per cm. thickness of the foam. This should be tested during production trials.

Typical foam properties				
	Value	Unit	Method	
Density	45 - 55	kg/m³	EN 1602	
Thermal conductivity 10°C (λi)	< 0,026	W/m.K	EN12667	
Closed cell content	≥ 90	%	ISO 4590	
Compressive strength	≥ 300	kPa	EN 826	
Dimensional stability			EN1604	
70°C/90% RV, 48 h. – lengte+breedte / dikte	≤ 6 / ≤ 2	%		
-20°C, 48 h. – lengte+breedte / dikte	≤ 2 / ≤ 0,5	%		
Fire behaviour				
Euroclass	E		EN13501-1	
Baustoffklasse	B2		DIN 4102-1	
	(B1 behind steel facing)			
Water absorptie	≤ 0,5	kg/m²	EN 1609	

Above mentioned values are measured on typical production samples, they are not a sales specification.

\*Note: The fire performance values stated in this document are not intended to assess the hazards of this or any other material during actual fires.

## Remarks

All our products must be processed by competent persons. In case of doubt you must contact us. The fire risk must be taken into account when processing polyurethane. All necessary measures must be taken to prevent firing. Suitable fire extinguishers must also be present in the immediate vicinity.

Our recommendations with regard to technical application, whether verbal, in writing or by means of tests have been drawn up to the best of our knowledge and understanding, but are intended as indicative only, also in relation to any third party entitlements. They do not discharge you of your obligation to check products delivered by us for their suitability for the intended procedures and purposes.

The application, use and processing of the products are beyond our control and you are fully responsible. Nestaan accepts no liability for damages resulting from the use of our products, including damages suffered by third parties and consequential damages. Please refer to the stipulations on the limitation of liability in our General Terms and Conditions.

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