

## Certificate Of Analysis

nC Surface Technology BV  
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Date : 23-07-2018  
Subject : Testing of Free film coat of nC® ProTherm ISO-X thermal insulating coating  
Your Code : Offer conformation d.d. 3-7-2018  
Laboratory Number : 182528  
Sampling : Samples have been taken on 3-7-2018 at Wormerveer, NL by R. van Hoorn, nC Surface technology  
Period of Investigation : 05-07-2018 until 23-07-2018

### Sample Data

Sample No	Sample Type	Sample Code	Date of Acceptance
1	Coating	Free film coat of nCProTherm ISO-X thermal insulating coating nC1803TH-1-40-01510-K	19-07-2018

### Methods

Analysis	Technique	Method	Q	s
Thermal resistance, guarded hot plate method	Temperature	EN 12667	Q	

Q = accredited by RvA, s = subcontracted, Qs = subcontractor accredited by RvA

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## Results

### Thermal resistance, guarded hot plate method

EN 12667

The guarded hot plate (GHP) is used to establish a unidirectional constant and uniform density of heat flow rate at a constant temperature difference over the specimen. The heat flow is measured at a mean temperature (temperature in middle of specimen) of 10°C. The  $\lambda_{10}$  value can be calculated with known thickness, heat flow and temperature difference.

**Remarks:**

**Sample 182528-1**

	<b>Unit</b>	<b>Individual Results</b>
<i>Thickness</i>	mm	13.5
<i>Density</i>	kg/m <sup>3</sup>	447.4
<i>Thermal conductivity <math>\lambda_{10}</math></i>	mW/(m·K)	56
<i>Thermal resistance <math>R_{10}</math></i>	m <sup>2</sup> K/W	0.2409