

## High Temperature Insulation Plate – Refractory-Clad

### Product Description

One-sided ceramic-clad insulation plate based on High Temperature Wool (HTW) (1) with high bulk density for preferred application in temperature range up to 300°C, non-combustible, insulates heat and sound, abrasion-resistant coating, high thermal shock resistance, colored surface design ; Refractory clad for high abrasion resistance.

### Applications

Environment protection sector, energy sector and chemical industry, e.g. in power plants or heat-treatment units/furnaces as substitution for the standard lining out of heat-resistant steel sheet. Application Temperature until 1200 °C, flow speeds up to over 70 m/sec, as system elements.



### Delivery Program

thickness (mm)	length (mm)	width (mm)	piece/VPE *)	m <sup>2</sup> / VPE *)	pieces/pallet	m <sup>2</sup> /pallet
33-38 (2)	978	378	5	0.72	150	21.32

\*) VPE = packaging unit; 1 VPE = 1 plate package

For delivery: Plate packages stacked on Euro pallets with hood protection

Packaging: PE-Shrinkwrapping

## Property Data / Standard Data

Property	Symbol	Description/Data (1)	Unit	Test Method / Classification
Product		Refractory-coated High Temperature Wool (HTW)		
Classification temperature*)	--	1100 - 1250	[°C]	ENV 1094-3 *)
Thermal conductivity in relation to the mean temperature	t <sub>m</sub>	400      600      800	[W/mK]	ASTM C-417
	λ	0,10-0,13      0,08-0,10      0,16-0,19		
Nominal density without Refractory-Clad	RD	200 - 400	[kg/m <sup>3</sup> ]	ENV 1094-7
Pressure for compression of (%)		0,3 N / mm <sup>2</sup> / 10 %		
Cold crushing strength Refractory-Clad	CCS	50	[N/mm <sup>2</sup> ]	ENV 1402-6
Permanent lin. Change (%) at temperature ( °C)		-1,0% (1100°C) bis - 3,1% (200°C)	[--]	ENV 1094-7
Reaction to fire	--	Non-combustible	[--]	EN 13501-1
Thermal expansion of coating		linear thermal expansion (1000°C)	%	EN 993-10
Weight/m <sup>2</sup> Incl. Refractory-Clad		Approx. 2,0	[kg/m <sup>2</sup> ]	

\*) according to ENV 1094-3

<p>RHI Dinaris GmbH Abraham-Lincoln-Str. 1 D- 65189 Wiesbaden Telefon: +49/611/2366-11 Fax: +49/611/2366-411 <a href="http://www.rhi-ag.com">www.rhi-ag.com</a></p>	<p>Order to: RHI Dinaris GmbH Abraham-Lincoln-Str. 1 D-65189 Wiesbaden Telefon: +49/611/2366-11 Fax: +49/611/2366-411 <a href="mailto:ees@rhi-ag.com">ees@rhi-ag.com</a></p>	<p>Sales Representative RHI Dinaris GmbH Mr. Georg Krömer Telefon: +49/30/8739314 Fax: +49/30/8615447 Handy: +49/171/8833431 <a href="mailto:gkroemer@web.de">gkroemer@web.de</a></p>
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The data listed above are standard test results that were determined over a representative time span according to currently valid test standards or methods applied. However, they are not to be viewed as a binding specification and are, consequently, not to be understood as an expression of specific properties. We reserve the right to technical and product enhancement and publication of new data sheets.

- (1) = Depending on application and operational demands; also based on Alkaline-Earth-Silicate wool (AES) available.
- (2) = Depending on the thickness of coating / design