

Promat PROMAGLAF® HTK

High Temperature Biosoluble Fibre Blanket

INTRODUCTION

Promat PROMAGLAF® HTK blankets possess a fibre chemistry within the regulatory definition of a man-made vitreous (silicate) fibre with random orientation with alkaline oxide and alkaline earth oxide content greater than 18% by weight.

These fibres have been tested in accordance with both the protocol of the European Commission (ECB/TM27 REV. 7) pursuing the Nota Q of the Directive 97/69/EC and the Intratracheal Instillation Biopersistence.

Testing requested by the German Hazardous Substance Ordinance (Deutsche Gefahrstoffverordnung, Appendix IV nr 22 Abs. Satz 2, Kriterium 4), with results that are below regulatory thresholds. As a result, PROMAGLAF® HTK blankets are certified biosoluble materials not requiring any additional labelling.

Please refer to SDS for practical use, handling and disposal of Promat PROMAGLAF® HTK material.

Performance and properties	Promat PROMAGLAF® HTK 1100	Promat PROMAGLAF® HTK 1260	
Classification temperature (ENV 1094-3)	1100°C	1260°C	
Melting point	>1250°C	>1400°C	
Average fibre diameter	3.5µm	3.5µm	
Compression recovery after 50% compaction at room temperature	70-75%	70-75%	
Compression recovery after 168 hours at 1100°C (50% compaction)	70%	70%	
Linear shrinkage at 24 hours (ENV 1094-7)	900°C: 1.0% 1100°C: 1.5% 1260°C: –	0.5% 1.0% <2.5%	
Typical chemical composition	SiO ₂ : 50-65% ZrO ₂ : <1% MgO+CaO: 20-39% Al ₂ O ₃ : <1%	65-80% <2% 22-40% <1%	
Acid resistance (2N HCl at 81°C, 4 hours)	6.2%	6.2%	
Alkali resistance (2N NaOH at 81°C, 4 hours)	6.5%	6.5%	
Nominal density	96, 128 and 160kg/m ³	96, 128 and 160kg/m ³	
Thermal conductivity at mean temperature (ASTM C201)	96kg/m ³ density: 200°C: 0.07W/mK 400°C: 0.11W/mK 600°C: 0.17W/mK 800°C: 0.25W/mK 1000°C: 0.32W/mK	128kg/m ³ density: 0.06W/mK 0.10W/mK 0.15W/mK 0.20W/mK 0.27W/mK	160kg/m ³ density: 0.06W/mK 0.09W/mK 0.13W/mK 0.18W/mK 0.25W/mK

NOTE: All physical property values are averages based on standard production. The figures can change dependent on the test methods used. If a particular value is of prime importance for a specification, please contact Promat technical services department.

Standard sizes

Thicknesses (mm)	13	19	25	50
Width (mm)	610	610	610	610
Length (mm)	14640	9630	7320	3660
Per square metre	8.93	5.87	4.47	2.23

Aluminium face on one side available upon request. Standard packaging of Promat PROMAGLAF® HTK is 20 rolls per pallet.