

## Moldafrax Pigtails System

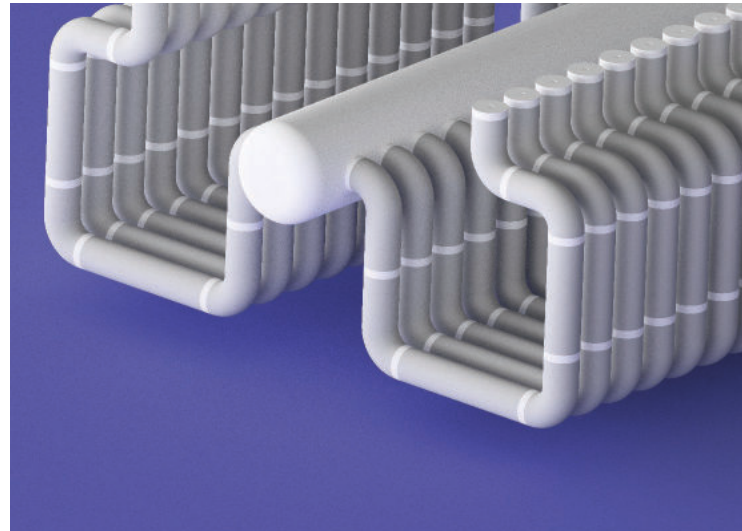
### DESCRIPTION

The Moldafrax Pigtails System represents an innovative engineering solution designed to insulate the Inlet and Outlet Pigtail areas in petrochemical furnaces. This system uses rigid vacuum-formed tubes, specifically adapted to each project.

The main advantage of this system is the speed of installation due to the elimination of the need for metalworking services. Since the pipes are coated with a specially developed coating to resist moisture from adverse weather conditions or cleaning processes, as well as preventing the spread of flames, there is no need to apply sheet metal finishing.

### UNIQUE FEATURES OF THE SYSTEM

- Customized design for highly complex geometries;
- Formulation specially developed to withstand the aggressiveness required by each application;
- Simple and fast fastening system;
- Temperature class: 1260°C
- Special coating that adds weather resistance and prevents the spread of flames.
- **Meets ATSM C795, ASTM C692 and ASTM C871**  
"Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel"



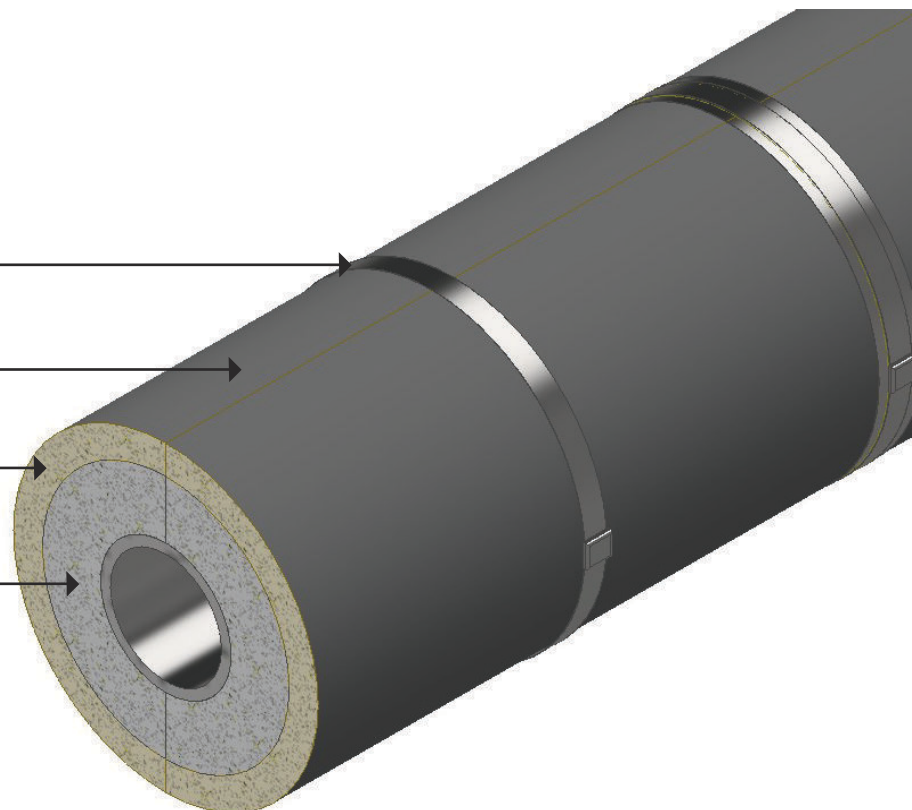
### TYPICAL SCHEME

Stainless Steel Clamps for fixing

Weather & Fire Retardant Coat

Moldafrax Shapes  
(outer layer)

Durablanket (inner layer)



# Product Information Sheet



## Moldafrax Pigtails System

### CHEMICAL PROPERTIES

Vacuum-formed shapes are resistant to attack from most corrosive agents, except for hydrofluoric and phosphoric acids and concentrated alkalis. Vacuum-formed shapes are also resistant to both oxidation and reduction. If exposed to water or steam, their thermal and physical properties are restored after drying.

### VACUUM FORMED PROPERTIES

Nominal Density	285 Kg/m <sup>3</sup>	17.8 pcf
Temperature Rating	1260 °C	2000 F
Melting Point	1760 °C	3200 F
Linear Shrinkage - 24h @ 982 °C	1.8 %	1.8 %
Linear Shrinkage - 24h @ 1260 °C	3.5 %	3.5 %
Typical Rupture Modulus	12.4 N/m <sup>2</sup>	12.4 N/m <sup>2</sup>
Compression as received 24h @ 1260°C	5 %	5 %

### Thermal Conductivity

	W / m . K	BTU.in/h.ft <sup>2</sup> .F
@ 200 °C (392 F)	0.049	0.34
@ 400 °C (752 F)	0.068	0.47
@ 600 °C (1112 F)	0.094	0.65
@ 800 °C (1472 F)	0.130	0.90
@ 1000 °C (1832 F)	0.170	1.18

The Temperature Rating of Insulfrax® products is determined based on the criterion of irreversible linear change, not by the melting point.

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### CF BLANKET PROPERTIES

	Unit	
Nominal Density	Kg/m <sup>3</sup>	96–128
Temperature Rating	°C	1260
Melting Point	°C	1760
Linear Shrinkage - 24h @ 1100 °C	%	2.3

### THERMAL CONDUCTIVITY

	96 kg/m <sup>3</sup> (6 pcf)	128 kg/m <sup>3</sup> (8 pcf)
	W / m.K (BTU.in/h.ft <sup>2</sup> .F)	
@ 400 °C (752 F)	0.087 (0.60)	0.080 (0.55)
@ 600 °C (1112 F)	0.140 (0.97)	0.120 (0.83)
@ 800 °C (1472 F)	0.220 (1.52)	0.180 (1.25)
@ 1000 °C (1832 F)	0.360 (2.50)	0.280 (1.94)

### COATING

	Unit	
Nominal Density	Kg/L	1.28
Solids content by weight	%	68.9
Flame spread (ASTM E84)	%	0
Weather Resistance	-	✓

### Alkegen

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