

Technical Data Sheet

ISOSTEEL

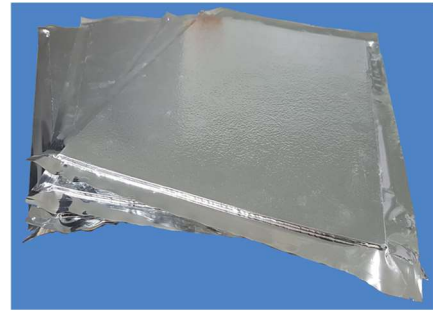


Characteristics

ISO-STEEL panels are specially designed for steel industry and other hot metal applications. The flexible microporous insulation panels have very good thermal and mechanical properties.

Available in different covering types. All coverings are water repellent to ensure the stability of the microporous core when moisture might occur due to castables, mortar,...

As an option, a reinforcement mica layer can be applied on one side to the PE foil covering version.



Steel industry drivers

- Safety
- Reduction of heat loss and energy cost
- Reduction of ladle shell temperature
- Increasing capacity
- Increasing of holding times
- Reduce or avoid reheating
- Reduction of Total cost of Ownership



Working and processing

ISO-STEEL panels can be shaped easily with a simple cutter and taped off with aluminium tape. The panels can be fixed in place with the same adhesives that are used for the refractory lining.



Product data

Type		ISO-STEEL
Standard finishing		PE foil – ALU 6 – LV (light vacuum)
Additional protection option		Mica (only in PE foil finishing)
Maximum working temperature	°C	1050
Density	kg/m ³	420-450
Non combustibility test		Classification A1
Compressive strength at 10% (ASTM C 165)	MPa	0,94
Thermal conductivity (ISO 8302, ASTM C177)		
a 200°C	W/m.K	0,024
a 400°C	W/m.K	0,028
a 600°C	W/m.K	0,034
a 800°C	W/m.K	0,042
Shrinkage (ISO2477) one side 12h @1000°C	%	<0,7
At all sides 24h @1000°C	%	<3



Delivery sizes

Sizes	mm	300 x 430
Thickness	mm	5 - 7 - 10mm



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