



Product data sheet

Reference META07/06

STEEL PRODUCTS for CONTINUOUS CASTING

ISOLIN BOARDS

- Disposable boards used to form an inner lining for continuous casting tundishes.
- Avoids the lengthy preheating process.
- Helps in significant energy saving.
- Reduces consumption of refractory in tundishes.
- Improves quality of steel by providing fresh ISOLIN lining every time the tundish is changed.
- Easy deskulling of tundish at completion of casting.
- Improves turn around time significantly and in turn improves productivity.

Product variety & Benefits

- Available in acidic, basic or duplex variety depending upon the need of individual steel maker.
- Silica ISOLIN board may be used for Mild steel and Magnesite/Duplex ISOLIN Boards may be used for Stainless Steel manufacturing.
- No preheating of tundish is required except 15-20mins nozzle warming with a small burner.

Packaging

ISOLIN Boards are very fragile in nature. ISOLIN board packaging is designed to protect it from moisture and proper care is taken during packaging to avoid transit breakages through export worthy packing in wooden crates. When correctly stored, the shelf life of ISOLIN board is at least 6 months provided it has been kept in proper moisture free environment.

Metaflux warrants that the products comply with the specifications stated herein to the exclusion of any other warranty, express or implied. Metaflux makes no representation or warranty of any kind, either express or implied, as to the merchantability or fitness for a particular purpose or use of the products. The warranty shall be limited to the replacement of the non-conforming products or, at Metaflux option, the refund of the purchase price. Any technical advice, recommendations or information are given based on Metaflux current knowledge and experience of the products and are deemed to be accurate. However, Metaflux undertakes no liability or responsibility of any kind in respect thereof. Users are invited to check that they have the latest version of this document.

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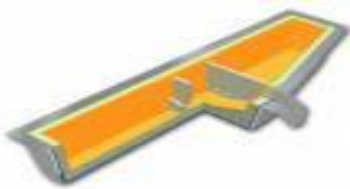
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STEEL PRODUCTS for CONTINUOUS CASTING

ADVANTAGES OF USING ISOLIN BOARDS

- REDUCED REFRACTORY CONSUMPTION-Minimises the need to patch and repair of tundish refractory lining thus ISOLIN system reduce refractory consumption.
- LESS TUNDISH INVENTORY-Reduction of tundish turn around time with ISOLIN system results in reduction of number of tundishes.
- CONSISTENT METAL TEMPERATURE-Insulating properties of the ISOLIN system results in consistent temperature of the liquid steel.
- EASY DUMPING-After casting a disposable soft residue left by ISOLIN boards helps in easy dumping on turnover station. Hence use of oxygen lance or pneumatic hammers is eliminated.
- HIGH YIELDS-ISOLIN system minimizes skull formation thus improves the yield of cast steel.
- BETTER ENVIROMENT-Lower tundish shell temperatures help to have cooler surrounding for the operation.

COLD TUNDISH LININGS FOR CONTINUOUS STEEL CASTING PROCESS:



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ISOPACK

- Refractory packing mass used along with ISOLIN tundish boards.
- Helps in good sealing of the joints between the side and bottom ISOLIN boards.
- Eliminates scope of liquid metal penetration through the joints.
- It becomes a soft friable mass after casting thus helps in easy deskulling.

ISOSEAL

- Refracting air-setting material supplied in ready to use form.
- Used for sealing the joints between ISOLIN side boards to prevent liquid metal leakage.

LADCOV

- Insulating Powder as cover of the liquid steel exposed surface in tundish.
- Reduce heat loss due to radiation.
- It is also applicable to insulate the exposed surface of liquid steel ladles.

Packaging

ISOPACK, ISOSEAL & LADCOV packaging is designed to protect it from moisture and proper care is taken during packaging in HDPE bags to avoid transit loss through export worthy packing. When correctly stored, the shelf life is at least 6 months provided it has been kept in proper moisture free environment.

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LADCOV-EX

- Insulating cover for the hot metal transfer ladles to be added after completion of hot metal tapping.

LADCOV-BC

- Fluxing materials to be used in hot metal transfer ladle in combination with LADCOV-EX which helps to delay the formation of ring jam.

METAKOTE-SP

- A Carbonaceous coating for slag pots in blast furnaces supplied in powder form helps to extend the service life of the slag pots.

METAKOTE

- A wide range of coatings used on Cast Iron Ingot Moulds to minimize stickers and erosion thereby improve the mould life.

METASEAL-X

- A product similar to thermit type used to fill up the erosion cavities of Cast Iron bottom plates.

METACOTE-BP

- **A wide range of coatings used on Cast Iron bottom plates to minimize bottom plate erosion and bottom plate stickers.**

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METATOP

- Hot Topping system supplied as single piece, 4 pieces and 8 pieces assemblies tailor made for different sizes of moulds.

COVEREX

- Exothermic and insulating antipiping compounds used along with METATOP hot tops

METASEAL

- Air setting ready to use sealing compounds applied to seal the joints between the mould and hot tops.

COVEREX-T

- Insulating powder as cover of the liquid steel exposed surface in tundish and steel ladles.

METAFIL-LD

- Carefully graded refractory nozzle filling compound which can be made as per requirement of customer's need for steel transfer ladle with slide gate system

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