



# PRODUCT DATA SHEET



## KALTOP™ Exothermic and insulating boards for feeder heads

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### SUMMARY

The KALTOP range of anti-piping compounds in board form is used with feeder heads in ingot casting.

### DESCRIPTION

KALTOP is anti-piping compound in board form and an alternative to the more traditional exothermic powders.

### APPLICATION

The KALTOP anti-piping compound board can either be designed to be preset in the mould prior to teeming, in the case of uphill-teemed ingots, or simply placed on the rising metal upon entering the feeder head. KALTOP units are made to specific sizes, to suit individual customer requirements.

### FUNCTION

The adequate feeding of a killed steel ingot is accomplished by the use of a feeder head assembly such as PROFAX or KALOREX, plus BORFAX and LITEFAX assemblies for the hot topping of steel ingots coupled with the use of a suitable exothermic and insulating anti-piping compound cover. The former prevents lateral heat losses of the feed material to the mould wall, and the latter minimizes the otherwise substantial head losses to the atmosphere. This combination thus provides the required liquid reservoir of molten steel to feed the body of the ingot as solidification/liquid contraction occurs during the cooling period.

KALTOP exothermic board is an alternative to more traditional anti-piping exothermic powders. It is in the form of a board or tile which is placed on the top of the steel as it rises up the ingot during casting. During use, KALTOP expands 3 to 5 times its original volume to form an insulating powder which protects the peripheral edge gaps of the ingot surface.

### BENEFITS

- Improved hygiene, as the dust arising during the application of powdered anti-piping compounds is avoided.
- Consistency in material make-up eliminates the possibility of ingredient segregation.
- Uniform and constant anti-piping compounds cover is achieved.
- Powder spillage and wastage are avoided.
- Peripheral edge gaps covering, as Kalminex expands during the exothermic reaction.
- Low fume of low toxicity.

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