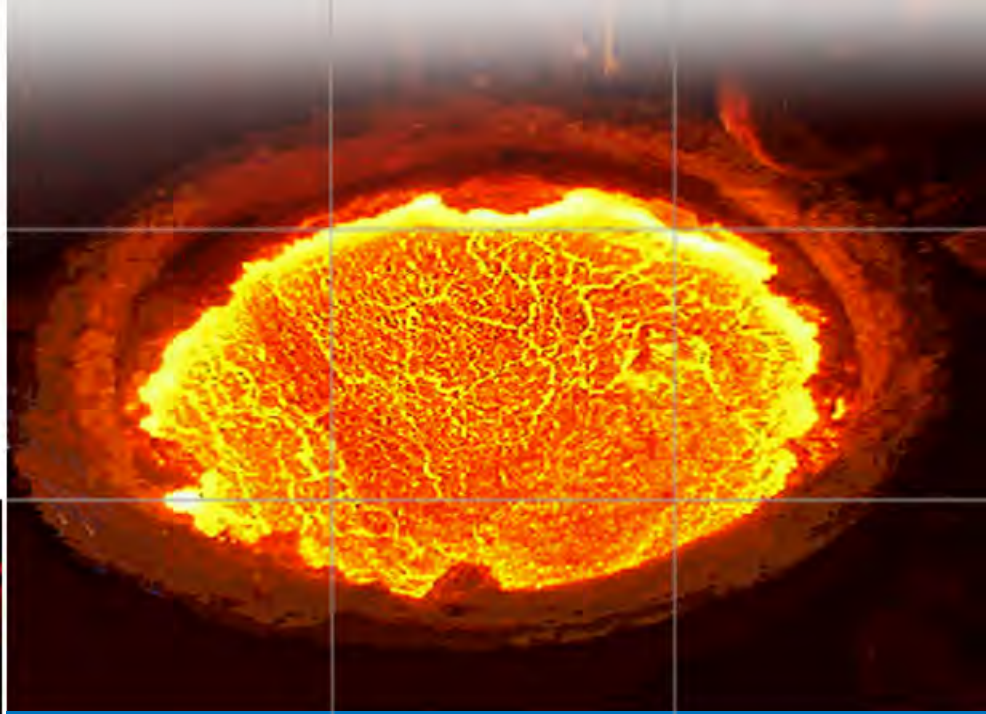


Performix Additives



About Performix Additives

Performix Additives are a range of proprietary materials that are added during ladle refining to improve steel quality and increase steelmaking efficiency. Ladle refining allows steelmakers to process their molten steel to exact chemical specifications outside the steelmaking furnace, thereby freeing up the furnaces for greater production capacity while decreasing energy and other costs per ton of steel produced.



► Desulfurizers

Our custom-designed lime-based Desulfurizers provide a cost effective desulfurization during and after furnace tapping. Rapid fluidization of the entire ladle slag increases the absorption of sulfur and non-metallic inclusions throughout each stage of ladle refining. Available with specified levels of metallic aluminum or silicon and premelted MgO.

CaO	67%
Al/Si	8%
CaF ₂	8%
Al ₂ O ₃	7%
MgO	5%
SiO ₂	3%
Moisture	<0.5%
Density	70 lb/cu.ft.
Application Rate	10-15 lbs per ton of steel

► Ladle Slag Deoxidizers

Our aluminum or silicon-based Ladle Slag Deoxidizers are designed to quickly assimilate into the entire ladle slag volume, which facilitates a complete reaction with the carryover furnace slag to reduce the FeO and MnO content, resulting in improved alloy recoveries and protection to ladle slaglines. Available with specific levels of metallic aluminum or silicon reductants.

Al/Si	50%
CaO	25%
Al ₂ O ₃	18%
SiO ₂	3%
MgO	2%
Moisture	<0.5%
Density	75 lb/cu.ft.
Application Rate	2-15 lbs per ton of steel

► Synthetic Slags

Our effective ladle metallurgy treatment through our line of calcium aluminate, calcium silicate and calcium fluoride-based Synthetic Slag products are chemically engineered to rapidly form a highly basic and fluid slag that will absorb impurities and the products of steel deoxidation. This creates a steel product with low inclusion levels and within specification to maximize castability, productivity and product quality.

CaO	52%
Al ₂ O ₃	32%
MgO	8%
SiO ₂	4%
FeO	2%
Moisture	<0.5%
Density	85 lb/cu.ft.
Application Rate	5-20 lbs per ton of steel

► Calcium Aluminates

Our calcium aluminates are engineered to be a cost effective approach to fluorspar-free ladle slag fluxing. Our extensive line of calcium aluminate products offer a wide range of chemistries to balance ladle slag chemistries while providing the basicity and fluidity required for effective steel refining in the ladle.

Al ₂ O ₃	54%
CaO	32%
MgO	6%
SiO ₂	5%
Moisture	<0.5%
Density	77 lb/cu.ft.
Application Rate	5-20 lbs per ton of steel

Want more information?



330-372-1781