



FOUNDRY Line Card

Save energy, reduce scrap and improve quality with aluminum foundry solutions from Pyrotek.

COATINGS

- Ladle and tool coatings
- Permanent mold coatings
- ZYP boron nitride coatings

CRUCIBLES

- Base blocks/stands
- Gas, electric resistance and induction applications
- Silicon carbide
- Spouted

DEGASSING AND FLUX INJECTION

- Ceramic degassing tubes and diffusers
- Flux/degassing tubes
- Machined graphite degassing shafts and rotors
- Rotary degassing and flux injection equipment

DOSING CONSUMABLES

- Crucible pumps
- Goose-necks
- Lower fill funnels
- Precast refractory dosing furnace liners
- Reinforced fiberglass material (RFM®) dosing launders
- Riser tubes for dosing furnaces
- Riser tube assembly rebuilds
- Silicon carbide (SiC) heating elements
- Upper fill hoppers

ENGINEERED SYSTEMS

- Heated launder systems
- Integrated melting system (IMS) for chip melting
- LOTUSS for remelting chips and light gauge scrap
- Melt treatment furnaces
- Turnkey engineered projects
- Underheated holding furnaces

FILTRATION

- Bonded particle filters (BPF®)
- Expanded and perforated tinplate
- Filter bowls
- Filter cups for investment casting
- Glasweve® filters for aluminum
- Glasweve® HT for copper/ferrous filtration
- Riser knock-offs
- Pyropore ceramic foam filters
- Sprue socks
- Wire mesh

FLUX

- Cover fluxes
- Drossing fluxes
- Flux gun
- Flux injection equipment
- Fluxing tools—hoes, rakes, scrapers, skimmers and wands
- Hot toppings
- Injectable fluxes
- Sodium-free fluxes
- Wall cleaning fluxes

GASKETS AND ROPE SEALS

- Compressible U-1
- Die-cut ceramic paper
- Gaskets and seals for furnace doors, heat-treat furnaces and quenching furnaces
- Gaskets for low-pressure stack-up applications
- IR-3 expandable gaskets
- Tadpole seals

HEATING ELEMENTS

- Ceramic heating tubes
- Immersion heaters
- Open coil heating elements
- Protection tubes for holding furnace heating elements
- SiC heating elements

INSULATION BOARD

- Calcium silicate
- Electrical insulation board
- ISOMAG® structural insulation board
- Low and high density board
- Microporous insulation
- Vermiculite

INSULATION MATERIALS

- Ceramic fiber blanket
- Ceramic fiber paper
- Customized blankets and covers
- Furnace modules
- DuPont™ Kevlar® fiber
- Insulating sleeving
- Pyroflow (L&D) dry vibratable
- Wollite castable

LADLES

- Bottom pour ladle systems; manual and robotic
- Conical ladles
- Precast refractory ladles
- RFM® AutoPour ladles
- Spun steel ladles
- Stainless steel ladles
- Vacuum formed pouring basins



MACHINED BOARD COMPONENTS

Blow boards
 Holding furnace reline kits
 Induction furnace panels
 Riser inserts
 Sprue bushings and midpipes for low-pressure die casting

MASTER ALLOYS

Magnesium
 Metallic sodium
 Phosphorus copper shot
 Silicon metal
 Strontium
 Titanium / boron

METAL DELIVERY SYSTEMS

Bottom pour ladle systems; manual and robotic
 Heated filter boxes
 Heated launder systems
 Overflow transfer system (OTS)
 Preheating stations
 Transfer ladles

METAL QUALITY EVALUATIONS

AISCAN™
 Prefil®

MOLTEN METAL PUMPS

Circulation pumps
 Gas injection pumps
 Lined transfer piping
 Overflow transfer system (OTS)
 Transfer pumps

PRECAST REFRACTORY SHAPES

AutoPour ladles
 Charge chutes for die cast holding furnaces
 Floor tiles
 Holding furnace liners
 Pins and spouts
 Pour cups
 Shot funnels
 Transfer ladle liners
 Troughing and launder sections

REFRACTORY REPAIR

Holding furnace relines
 Liquid phosphate bonded alumina-based refractories
 Mastic 85
 Moldables
 Plastic ramables
 Pyrofast phosphate-bonded alumina-based refractory

RISER SLEEVES

Direct pouring sleeves
 Insulating riser sleeves

SERVICES

Dross management and flux practices
 Metal quality evaluations
 Pump rebuild
 Refractory repair

SOW AND INGOT MOLDS

Dross pans
 Ingot molds
 Low profile
 Standard profile

STALK TUBES

Aluminum titanate
 Cast iron
 Cast refractory
 Dense fused silica
 Silicon nitride

TAP CONES, TAP BLOCKS AND CAST IRON PLUGS

THERMOCOUPLES

Complete assemblies
 Die thermocouples
 Quick tips
 Sensor certification (NIST, ASTM)
 Thermocouple protection tubes
 Thermocouple accessories
 Thermocouple elements
 Thermocouple extension wire

TOOLS

Coupon molds
 Flux gun
 Flux tools—hoes, rakes, scrapers, skimmers and wands
 Furnace dross booms
 Furnace rakes
 K-mold
 Ladles
 Skimmers

