

Industrial Heating

THE INTERNATIONAL JOURNAL OF THERMAL TECHNOLOGY

BUYERS GUIDE PRODUCT LISTING BOOKLET

FURNACES, OVENS AND KILNS

00040 Aging
Aluminum Brazing:
00080 Atmosphere
00100 Salt Bath
00120 Vacuum
00140 Aluminum Homogenizer
00160 Aluminum Solution Heat Treating
00180 Annealing
00200 Atmosphere Furnaces
00220 Austempering
00240 Batch
00260 Bell
00280 Belt
00300 Bench
00320 Billet
00340 Blast
00360 Blueing
00380 Boilers
00400 Bonding, Structural
00420 Box
00440 Brazing
00460 Burn-Off
00480 Cabinet
00500 Car Bottom
Carburizing:
00540 Atmosphere
00560 Atmosphere Plasma
00580 Ion
00600 Nitro-Carburizing
00620 Vacuum
00640 Continuous
00660 Caster
00680 Microwave
00700 Conveyor
00720 CVD
00740 Dielectric
00760 Drop Bottom
00780 Drum - Rotating
00800 Dryers
00820 Electric Arc
00840 Electric Resistance
00860 Electron Beam
00880 Flexible Heat Treating Cells
00900 Fluidized Bed
00920 Fluoride Ion Cleaning
00940 Forging
00960 Galvanizing
00980 Gantry
Gas:
01020 Fired
01040 Nitriding
01060 Quench
01080 Quench, High Pressure
01100 Glass Melting (Lehrs)
01120 Gradient
01140 Harden, Quench & Draw/Temper
Hearth:
01180 Elevator Hearth
01200 Open Hearth
01220 Reciprocating Hearth
01240 Roller Hearth
01260 Rotary Hearth
01280 Shaker Hearth

01300 Walking Hearth
01320 Heat Treat
Heaters:
01325 Electric, Infrared
01330 Gas, Infrared
01340 High Speed Steel
01360 Holding
01380 Immersion Heater
01400 In-Line Heating Stations
01420 Incinerators
01440 Rotary
Induction:
01480 Annealing
01500 Coils
01520 Heating
01560 Melting
01570 Power Supplies, Generators, Inverters
01575 Power Supplies, Solid State
01580 Scanners
01600 Skull Melting
01620 Transformers
01640 Vacuum
01720 Integral Quench
01740 Ion Nitriding
01760 Ion Vapor Aluminum Deposition
Kiln:
01800 Electric
01820 Gas Fired
01840 Microwave
01860 Roller Hearth
01880 Shuttle
01900 Tunnel
01920 Laboratory
01940 Laser
01960 Lead Bath
01980 Magnetic Field Heating
02000 Martempering
02020 Melting
02040 Mesh Belt
02060 Microwave + Accessories
02080 Muffle
02100 Neutral Hardening
02120 Oil-Fired
02140 Ovens
Oxidizers:
02180 Fume
02200 Thermal
02220 Panel
02240 Pit
02260 Plasma
02280 Pot
02300 Powder Atomization
02320 Preheating
02340 Pusher
02360 PVD Coating Equipment
02380 Radiant Tube
02400 Recuperative
02420 Reheating
02440 Remelting
02460 Resistance
02480 Retort
02500 Reverberatory
02520 Rotary Retort

02540 Salt Bath
02560 Austenitizing
02580 Blueing
02600 Carbide Brazing
Conditioning
02620 Curing
02640 Glass Strengthening
02660 Nitriding
02680 Patenting
02700 Precipitation Hardening
02720 Shape Setting Ni-Ti
Memory Wire
02740 Silver Annealing
02760 Temper/Draw
02780 Tool & Die
02800 Waste Treatment Systems
02820 Slab
02840 Slot Forge
02860 Soaking Pit
02880 Solution Annealing
02900 Spheroidizing
02920 Strip
02940 Temper/Draw
02960 Temper Furnace (Draw)
02980 Tip-Up
03000 Tool Room
03020 Tube
Vacuum:
03060 Brazing
03080 Degassing
03100 Furnace
03120 Carburizing
03140 Convection Assisted Heating
03160 Hardening
03180 High Pressure Gas Quench (3+ Bar)
03200 Hot Zone (refer to Components, Supplies and Materials: Hot Zones, Vacuum Furnaces)
03220 Low Pressure Gas Quench (0 to 2 Bar)
03240 Semi-Continuous
03260 Sintering
03280 Tempering
03300 Tool Room
03320 Melting/Casting
03340 Walking Beam
03600 Wrap-Around Heaters

FURNACE ATMOSPHERES AND GASES

03400 Acetylene
03420 Ammonia
03440 Ammonia Dissociators
03460 Argon
03480 Carbon Dioxide
03500 Carburizing Gases
03520 Helium
03540 Hydrogen
03560 Inert Gases
03580 Methane
Nitrogen:
03620 Liquid
03640 Membrane
03660 PSA Generators

03680 Oxidizing Gases
 03700 Oxygen
 03720 PSA Generators
 03740 Propane
 03760 Reducing Gases
 03780 Steam

COMPONENTS, SUPPLIES AND MATERIALS

03820 Absorbents
 03840 Alarms
 03860 Alloys
 03880 Castings
 03900 Fabricators
 03920 Heat Resistant
 03940 Low Melting
 03960 Baffles
 03980 Baskets
 04000 Bearings
Belts:
 04040 High Temperature
 04060 Wire Mesh
 04080 Woven Wire
 04100 Billet Feeders
 04120 Blowers
Brazing Suppliers:
 04160 Alloys
 04180 Nickel Alloy Preforms
 04200 Paste
 04220 Paste, Fluxes
 04240 Powder
Burners:
 04280 Burner Nozzles
 04300 Atomizing
 04320 Dual-Fuel
 04340 High-Velocity
 04360 Low NOX
 04380 Low-Velocity
 04400 Luminous Flame
 04420 Oxy-Fuel
 04440 Pre-Mix
 04460 Radiant Cup
 04480 Radiant Tube
 04500 Recuperative
 04520 Regenerative
 04540 Ribbon
 04560 Temperature Flame
 04580 Catalyst, Endothermic/Exothermic
 04600 Centrifuge
 04620 Ceramic Film
 04640 Ceramic Parts/Supplies
 04660 Chains
 04680 Chillers
 04700 Chilling Chambers
 04720 Cladding
Cleaning Equipment:
 04760 Aqueous
 04780 Blast
 04800 Ultrasonic
Coatings:
 04840 Ceramic
 04860 CVD
 04880 Diamond
 04900 Dip
 04920 High Temperature
 04930 Nano
 04940 PVD
 04960 Scale Retardant
 04980 Composites
Compounds:
 05020 Caustic
 05040 Corrosion-Preventive
 05060 Degreasing

05080 Descaling
 05100 Rust-Removing
 05120 Stop-Off
 05140 Computers/Computer Software
 05160 Conveyors
 05180 Cooling Systems, Closed Loop
 05200 Cooling Towers
 05220 Cranes
 05240 Crucibles
 05260 Cryogenics
Curtains:
 05300 Metallic
 05320 Refractory
 05340 Dampers
 05360 Dies
 05380 Doors, Water-Cooled
 05400 Ducting, Flexible High Temperature
 05420 Electrodes
 05440 Electron Guns
Elements:
 05480 Electric
 05500 Graphite
 05520 Molybdenum
 05540 Molybdenum Disilicide
 05560 Ribbon
 05580 Silicon Carbide
 05600 Tungsten
 05620 Fans
 05640 Fasteners
 05660 Fiber Optics
Filters:
 05700 Air
 05720 Gas
 05740 High Temperature Glass
 05760 Metal
 05780 Oil
 05800 Fittings, Molybdenum
 05820 Fixtures
 05840 Fixtures, Carbon/Carbon
 05860 Flooring, High Temperature
 05880 Foil Wrap
 05900 Freezers
 05920 Flux Field Concentrators
 05940 Furnace Loaders
 05960 Gas Generators
 05980 Endothermic Generators
 06000 Exothermic Generators
 06020 Hydrogen Generators
 06040 Plasma
 06050 Gas Recovery
 06060 Gaskets
 06080 Gaskets, High Temperature
 06100 Graphite
 06120 Grids
 06140 Grinders
 06160 Hearth Plates
 06180 Heat Exchangers
 06200 Heat Transfer Fluids
 06220 Hoists
 06240 Hoods
 06260 Hot Zones, Vacuum
 06280 Furnaces
 06300 Impellers
 06320 Joints, Expansion
 06340 Kiln Furniture
 06360 Ladles
 06380 Liners, Wire Mesh
 06400 Lubricants
 06420 Marking Systems
 06440 Material Handling Equipment
 06440 Membranes

06460 Molds
 06480 Molybdenum Products
 06500 Motors
 06520 Muffles
 06540 Oil Filtration/Purification
 06560 Oil Skimmers
 06580 Oil/Water Separator
 06600 Parts Feeders
 06620 Parts Loaders
 06640 Parts Sorters
 06660 Piers
 06680 Pollution Control Equipment
 06700 Pots
 06720 Powder Metals
 06740 HIP Furnaces
 06760 Hot Isostatic Press
 06780 Injection Molding
 06800 Metal Injection Molding (MIM)
 06820 Debinding
 06840 Debinding Microwave
 06860 Sintering
 06880 Sintering Microwave
 06900 Equipment
 06920 Sintering (P/M)
 06940 Powders, Brazing
 06960 Power Supplies, RF
Presses:
 07000 Compacting
 07020 Extrusion
 07040 Isostatic
 07060 Straightening
 07080 Pressure Vessels
 07100 Protective Clothing
Pumps:
 07140 Cryogenic
 07160 Oil
 07180 Vacuum
 07200 Vacuum Fluids
Quench:
 07240 Agitators
 07260 Fans
 07280 Nozzles, Gas
 07300 Oil Coolers
 07320 Oil Heaters
 07340 Presses
 07360 Tanks
 07380 Quenchant Cooling Systems
Quenchants:
 07420 Air
 07440 Gas
 07460 Oil
 07480 Polymer
 07500 Salt
 07520 Water
 07540 Racks
 07560 Radiant Tubes
 07580 Radiant Tubes, Ceramic
 07600 Rails
 07620 Rails, Overhead
 07640 Reactors
 07660 Reactors, Variable
 07680 Recuperators
 07700 Regenerators
 07720 Rollers, Silicon Carbide
Salt:
 07760 Heat Treating
 07780 Pots
 07800 Pumps
 07820 Reclamation Systems
 07830 SCR's, Thyristors
 07840 Screens, Wire Mesh
 07860 Shields, Molybdenum
 07880 Sight Glass

07900 Solder
 07920 Solvent Drying Systems
 07940 Spark Igniters
Steels:
 07980 Alloy
 08000 Carbon
 08020 Specialty
 08040 Stainless
 08060 Stainless, Fibers
 08080 Tank Fabrications
 08100 Tantalum Products
 08120 Tongs
 08140 Tool Wrap
 08160 Transformers
 08170 Transistors, IBGTs
 08180 Trays
Tubes:
 08220 Electron
 08240 Oscillator
 08260 Power
 08280 Tungsten Products
 08300 Vent Systems
 08320 Ventilation Equipment
 08340 Vibratory Trays
 08360 View Ports
 08380 Washers, Parts, Water Based
 08400 Waste Water Reclamation
 08420 Water Treatment Chemicals
 08440 Weldments
 08460 Wheel Assemblies, Powered
 08480 Wire, High Temperature
 08500 Wire Cloth

REFRACTORIES AND INSULATION

Insulation:
 08560 Ceramic Fiber
 08580 Felt, Graphite
 08600 Fiberglass
 08620 Fire Retardant
 08640 Fireproof
 08660 Furnace
 08680 High Temperature
 08700 Mica
 08720 Microporous Silica
 08740 Mineral Fiber Block
 08760 Structural
 08770 Alumina
 08780 Magnesite
 08800 Mica, Slip-Plane
 08820 Mortar
 08840 Mullite
 08860 Patching Material
Refractories:
 08900 Alumina
 08920 Binders
 08930 Bonded
 08940 Boron Nitride
 08960 Brick
 08980 Castables
 09000 Cement
 09020 Ceramic Fiber
 09040 Coatings, Glazing and Energy Savings
 09060 Cordierite
 09080 Dolomite
 09100 Fiber Block
 09120 Firebrick
 09140 Fireclay
 09160 Foam, Ceramic/Graphite/Carbon
 09180 Fused Alumina
 09200 Fused Cast
 09220 Fused Silica
 09240 Graphite/Carbon

09260 Gunning Material
 09280 Ladle
 09300 Monolithic
 09320 Plastic
 09340 Pre-Cast Shapes
 09360 Quartz Wool
 09380 Ramming Mixes
 09400 Refractory Adhesives, High Temperature
 09420 Refractory Anchors
 09440 Refractory Guns & Pumps
 09460 Refractory Mixers
 09480 Refractory Systems, Suspended
 09500 Shotcrete
 09520 Silica
 09540 Silicon Carbide
 09560 Specialty
 09580 Steel Fibers
 09600 Windows, High Temperature
 09620 Silica Brick
 09640 Silicon Nitride
 09660 Textiles, High Temperature
 09680 Tundishes
 09700 Yttria
 09720 Zirconia

CONTROLS, INSTRUMENTATION AND TEST EQUIPMENT

09760 Actuators
 09780 Air-Gas Proportional Mixer
Analyzers:
 09820 Ammonia
 09840 Chemical
 09860 Flue Gas
 09880 Gas
 09900 Hydrogen
 09920 Infrared
 09940 NOX
 09960 Oxygen
 09980 Particle Size
 10000 Power
 10020 Quench Rate
 10040 Sulphur Dioxide
 10060 Bond Testers
Calibration:
 10100 Instruments
 10120 Management Software
 10140 Capacitors
 10160 Ceramic
 10180 Oil-Filled
 10200 Vacuum
Controllers:
 10240 Carbon Potential
 10260 Multi-Loop
 10280 Power
 10300 Programmable
 10320 Proportional
 10340 Single Loop
Controls:
 10380 Adapters, Retrofit
 10400 Atmosphere
 10420 Combustion
 10440 Computerized
 10445 Energy Optimization
 10460 Flame Safeguard
 10480 Fuel/Air Mix
 10500 Gas Nitriding
 10520 Motor
 10540 Pressure
 10560 Remote Data Acquisition
 10580 Solid State
 10600 Temperature

10620 Crack Detection, Automatic
 10640 Creep Testing Devices
 10660 Dew Point Instruments
 10680 Dew Point/Moisture Transmitters
 10700 Digital Indicators
 10720 Dilatometers, Quench
 10740 Eddy Current
 10760 Extensometers
 10780 Fatigue Testing Devices
 10800 Flame Detectors
 10820 Flame Safeguard
 10840 Flow Meters
 10860 Flow Meters, Electronic Read Out
 10880 Fuel Meters
 10900 Galvanometers
 10920 Gas Metering Panels
Gauges:
 10960 Air Velocity
 10980 Thickness
 11000 Vacuum
Hardness Testers:
 11040 Accessories
 11060 Automatic
 11080 Brinell
 11100 Micro
 11120 Portable
 11140 Rockwell
 11160 Hygrometers
 11170 Imaging Systems, Infrared
 11180 Leak Detectors
 11200 Metallographic Supplies
 11220 Metallographs
 11240 Meters, Gas Flow
 11260 Microprocessors
 11280 Microscopes
 11300 Accessories
 11320 Mixers - Air-Fuel
 11340 Nondestructive Testing Instruments
PID Tuning Software:
 11380 Off-Line
 11400 On-Line
 11420 Positioners
 11440 Potentiometers
 11460 Pressure Transducers
 11480 Probes
 11500 Process Monitors
 11520 Programmers
 11540 Pyrometers
 11560 Quench Testing Devices
 11580 Recorders
 11600 Computerized
 11620 Video
 11640 Recorder Supplies
Regulators:
 11680 Air
 11700 Gas
 11720 Oil
 11740 Resistors
 11760 Semiconductors
 11780 Sensors
 11800 Analytical
 11820 Carbon
 11840 Oxygen
 11860 Temperature
Software:
 11900 Simulation
 11920 Complete Systems
 11940 Switches
 11960 Tensile Testing Devices
Thermal:
 12000 Conductivity Devices

12020 Expansion Devices
12040 Imagers
12060 Thermocouple Wire
12080 Thermocouples
12100 Thermometers
12120 Thermometers, Infrared
12140 Thermostats
12160 Thyristors
12180 Transmitters
12200 Tubes, Protection
12220 Ultrasonic Testing
Instruments

Valves:

12260 Butterfly
12280 Flow Control
12300 Hi-Temp
12320 Plug
12340 Shut-Off
12360 Slide Gate
12380 Solenoid Control
12400 Vacuum
12420 Weighing Systems

PARTS WASHING

EQUIPMENT/SUPPLIES

12460 Alkaline Cleaners
12480 Dunk Washers
12500 Emulsion Cleaners
12520 Neutral Cleaners
12540 Semiaqueous Cleaners
12560 Spray and Dunk Washers
12580 Spray Washers
12600 Vapor Degreasers

SERVICES

12640 Energy Audit
12660 Energy Conservation
12670 Energy Recovery
12680 Heat Recovery
12683 Oil Recovery & Recycling
12685 Helium Leak Detection
12700 Solvent Recovery