

FURNACES, OVENS AND KILNS

00100 - Aging

Aluminum Brazing

00200 - Atmosphere

00250 - Salt Bath

00300 - Vacuum

00350 - Aluminum Homogenizer

00400 - Aluminum Solution Heat Treating

00450 - Annealing

00500 - Atmosphere Furnaces

00550 - Austempering

00600 - Batch

00650 - Bell

00700 - Belt

00750 - Bench

00800 - Billet

00850 - Blast

00900 - Blueing

00950 - Boilers

01000 - Bonding, Structural

01050 - Box

01100 - Brazing

01150 - Burn-Off

01200 - Cabinet

01250 - Car Bottom

Carburizing

01350 - Atmosphere

01400 - Atmosphere Plasma

01450 - Ion

01500 - Nitrocarburizing

01550 - Vacuum

01600 - Continuous

01650 - Caster

01700 - Conveyor

01750 - CVD

01800 - Dielectric

01850 - Drop Bottom

01900 - Drum - Rotating

01950 - Dryers

02000 - Electric Arc

02050 - Electric Resistance

02100 - Electron Beam

02150 - Flexible Heat-Treating Cells

02200 - Fluidized Bed

02250 - Fluoride Ion Cleaning

02300 - Forging

02350 - Galvanizing

02400 - Gantry

Gas

02500 - Fired

02550 - Quench

02600 - Quench, High Pressure

02650 - Glass Melting (Lehrs)

02700 - Gradient

02750 - Harden, Quench & Draw/Temper

Hearth

02850 - Elevator Hearth

02900 - Open Hearth

02950 - Reciprocating Hearth

03000 - Roller Hearth

03050 - Rotary Hearth

03100 - Shaker Hearth

03150 - Walking Hearth

03200 - Heat Treat

Heaters

03300 - Cartridge

03350 - Electric, Infrared

03400 - Gas, Infrared

03450 - Immersion

03500 - Wrap-Around

03550 - High-Speed Steel

03600 - Holding

03650 - In-Line Heating Stations

03700 - Incinerators

03750 - Rotary

Induction

03850 - Annealing

03900 - Coils

03950 - Heating

04000 - Melting

04050 - Power Supplies, Generators,
Inverters

04100 - Power Supplies, Solid State

04150 - Scanners

04200 - Skull Melting

04250 - Transformers

04300 - Vacuum

04350 - Integral Quench

04400 - Ion Vapor

Kiln

04500 - Electric

04550 - Gas-Fired

04600 - Microwave

04650 - Roller Hearth

04700 - Shuttle

04750 - Tunnel

04800 - Laboratory

04850 - Laser

04900 - Lead Bath

04950 - Magnetic Field Heating

05000 - Martempering

05050 - Melting

05100 - Mesh Belt

05150 - Microwave & Accessories

05200 - Muffle

05250 - Neutral Hardening

Nitriding

05350 - Gas

05400 - Ion

05450 - Salt

05500 - Oil-Fired

05550 - Ovens

Oxidizers

05650 - Fume

05700 - Thermal

05750 - Panel

05800 - Pit

05850 - Plasma

05900 - Pot

05950 - Powder Atomization

06000 - Preheating

06050 - Pusher

06100 - PVD Coating Equipment

06150 - Radiant Tube

06200 - Recuperative

06250 - Reheating

06300 - Remelting

06350 - Resistance

06400 - Retort

06450 - Reverberatory

06500 - Rotary Retort

06550 - Salt Bath

06600 - Austenitizing

06650 - Blueing

06700 - Carbide Brazing Conditioning

06750 - Curing

06800 - Glass Strengthening

06850 - Patenting

06900 - Precipitation Hardening

06950 - Shape Setting Ni-Ti Memory Wire

07000 - Silver Annealing

07050 - Temper/Draw

07100 - Tool & Die

07150 - Waste Treatment Systems

07200 - Sintering

07250 - Additive Manufacturing
 07300 - Slab
 07350 - Slot Forge
 07400 - Soaking Pit
 07450 - Solution Annealing
 07500 - Spheroidizing
 07550 - Strip
 07600 - Temper/Draw
 07700 - Tip-Up
 07750 - Tool Room
 07800 - Tube

Vacuum

07900 - Brazing
 07950 - Degassing
 08000 - Melting/Casting

Vacuum Furnace

08100 - Additive Manufacturing
 08150 - Convection-Assisted Heating
 08200 - Hardening
 08250 - High-Pressure Gas Quench (3+ Bar)
 08300 - Hot Zone
 08350 - Low-Pressure Gas Quench (0 - 2 Bar)
 08400 - Semi-Continuous
 08450 - Sintering
 08500 - Tempering
 08550 - Tool Room
 08600 - Walking Beam

FURNACE ATMOSPHERES & GASES

08700 - Acetylene
 08750 - Ammonia
 08800 - Argon
 08850 - Carbon Dioxide
 08900 - Carburizing Gases
 08950 - Helium
 09000 - Hydrogen
 09050 - Inert Gases
 09100 - Methane

Nitrogen

09200 - Liquid
 09250 - Membrane
 09300 - PSA Generators
 09350 - Oxidizing Gases

09400 - Oxygen

09450 - PSA Generators
 09500 - Propane
 09550 - Reducing Gases
 09600 - Steam

COMPONENTS, SUPPLIES & MATERIALS

09700 - Absorbents
 09750 - Alarms

09800 - Alloys

09850 - Castings
 09900 - Fabricators
 09950 - Heat-Resistant
 10000 - Low Melting
 10050 - Wear-Resistant
 10100 - Baffles
 10150 - Baskets
 10200 - Bearings

Belts

10300 - High-Temperature
 10350 - Wire Mesh
 10400 - Woven Wire
 10450 - Billet Feeders
 10500 - Blowers
 10550 - Boronizing Powder & Paste

Brazing Supplies

10650 - Alloys
 10700 - Nickel Alloy Preforms
 10750 - Paste
 10800 - Paste, Fluxes
 10850 - Powder
 10900 - Burner Nozzles

Burners

11000 - Atomizing
 11050 - Dual-Fuel
 11100 - High-Velocity
 11150 - Low-NOx
 11200 - Low-Velocity
 11250 - Luminous Flame
 11300 - Oxy-Fuel
 11350 - Pre-Mix
 11400 - Pulse-Firing
 11450 - Radiant Cup
 11500 - Radiant Tube
 11550 - Recuperative
 11600 - Regenerative
 11650 - Ribbon
 11700 - Temperature Flame

11750 - Catalyst, Endothermic/
 Exothermic
 11800 - Centrifuge
 11850 - Ceramic Film
 11900 - Ceramic Parts/Supplies
 11950 - Chains
 12000 - Chillers
 12050 - Chilling Chambers
 12100 - Cladding

Cleaning Equipment

12200 - Aqueous
 12250 - Blast
 12300 - Ultrasonic

Coatings

12400 - Ceramic
 12450 - CVD
 12500 - Diamond
 12550 - Dip
 12600 - High-Temperature
 12650 - Nano
 12700 - PVD
 12750 - Scale Retardant
 12800 - Composites

Compounds

12900 - Caustic
 12950 - Corrosion-Preventive
 13000 - Degreasing
 13050 - Descaling
 13100 - Rust-Removing
 13150 - Stop-Off
 13200 - Computers/Computer Software
 13250 - Conveyors
 13300 - Cooling Systems, Closed Loop
 13350 - Cooling Towers
 13400 - Cranes
 13450 - Crucibles
 13500 - Cryogenics

Curtains

13600 - Metallic
 13650 - Refractory
 13700 - Dampers
 13750 - Dies
 13800 - Doors, Water-Cooled
 13850 - Ducting, Flexible High-
 Temperature
 13900 - Dust Collectors
 13950 - Electrodes
 14000 - Electron Guns

Elements

14100 - Electric
 14150 - Graphite
 14200 - Molybdenum
 14250 - Molybdenum Disilicide
 14300 - Ribbon
 14350 - Silicon Carbide
 14400 - Tungsten
 14450 - Fans
 14500 - Fasteners
 14550 - Fiber Optics

Filters

14650 - Air
 14700 - Gas
 14750 - High Temperature Glass
 14800 - Metal
 14850 - Oil

14900 - Fittings, Molybdenum
14950 - Fixtures
15000 - Fixtures, Carbon/Carbon
15050 - Flooring, High-Temperature
15100 - Foil Wrap
15150 - Freezers
15200 - Flux Field Concentrators
15250 - Furnace Loaders

15300 - Gas Generators

15350 - *Ammonia Dissociators*
15400 - *Endothermic Generators*
15450 - *Exothermic Generators*
15500 - *Hydrogen Generators*
15550 - *Plasma*
15600 - Gas Recovery
15650 - Gaskets
15700 - Gaskets, High-Temperature
15750 - Graphite
15800 - Grids
15850 - Grinders
15900 - Hearth Plates
15950 - Heat Exchangers
16000 - Heat Transfer Fluids

16050 - Heaters

16100 - *Cartridge*
16150 - *Immersion Heater*
16200 - *Thin-Film*
16250 - *Vacuum Diffusion Pump*
16300 - *Wrap-Around Heaters*
16350 - Hoists
16400 - Hoods
16450 - Hot Zones, Vacuum Furnaces
16500 - Impellers
16550 - Joints, Expansion
16600 - Kiln Furniture
16650 - Ladles
16700 - Liners, Wire Mesh
16750 - Lubricants
16800 - Marking Systems
16850 - Material Handling Equipment
16900 - Membranes

16950 - Metal Injection Molding (MIM)

17000 - *Debinding*
17050 - *Debinding Microwave*
17100 - *Equipment*
17150 - *Sintering*
17200 - *Sintering Microwave*
17250 - *Sintering (P/M)*
17300 - Metallurgical Lab Equipment
17350 - Mills
17400 - Molds
17450 - Molybdenum Products
17500 - Motors

17550 - Muffles
17600 - Nickel & Nickel Alloys
17650 - Oil Filtration/Purification
17700 - Oil Skimmers
17750 - Oil/Water Separator
17800 - Parts Feeders
17850 - Parts Loaders
17900 - Parts Sorters
17950 - Piers
18000 - Pollution Control Equipment
18050 - Pots

18100 - Powder Metals

18150 - *Additive Manufacturing Machines*
18200 - *HIP Furnaces*
18250 - *Hot Isostatic Press*
18300 - *Injection Molding*
18350 - *Powders, Additive Manufacturing*
18400 - Powders, Brazing
18450 - Power Supplies, RF

Presses

18550 - *Compacting*
18600 - *Extrusion*
18650 - *Isostatic*
18700 - *Straightening*
18750 - Pressure Vessels
18800 - Protective Clothing

Pumps

18900 - *Centrifugal*
18950 - *Cryogenic*
19000 - *Diaphragm*
19050 - *Oil*
19100 - *Rotary*
19150 - *Vacuum*
19200 - *Vacuum Fluids*

Quench

19300 - *Agitators*
19350 - *Fans*
19400 - *Nozzles, Gas*
19450 - *Oil Coolers*
19500 - *Oil Heaters*
19550 - *Presses*
19600 - *Tanks*
19650 - *Quenchant Cooling Systems*

Quenchants

19750 - *Air*
19800 - *Gas*
19850 - *Oil*
19900 - *Polymer*
19950 - *Salt*
20000 - *Water*
20050 - Racks
20100 - Radiant Tubes

20150 - Radiant Tubes, Ceramic
20200 - Rails
20250 - Rails, Overhead
20300 - Reactors
20350 - Reactors, Variable
20400 - Recuperators
20450 - Regenerators

Rollers

20550 - *Heat Transfer / Thermal*
20600 - *Silicon Carbide*

Salt

20700 - *Heat Treating*
20750 - *Pots*
20800 - *Pumps*
20850 - *Reclamation Systems*
20900 - *SCRs, Thyristors*
20950 - Screens, Wire Mesh
21000 - Shields, Molybdenum
21050 - Sight Glass
21100 - Solder
21150 - Solvent Drying Systems
21200 - Spark Igniters

Steels

21300 - *Alloy*
21350 - *Belting*
21400 - *Carbon*
21450 - *Specialty*
21500 - *Stainless*
21550 - *Stainless, Fibers*
21600 - Tank Fabrications
21650 - Tantalum Products
21700 - Tongs
21750 - Tool Wrap
21800 - Transformers
21850 - Transistors, IBGTs
21900 - Trays

Tubes

22000 - *Electron*
22050 - *Oscillator*
22100 - *Power*
22150 - Tungsten Products
22200 - Vent Systems
22250 - Ventilation Equipment
22300 - Vibratory Trays
22350 - View Ports
22400 - Washers, Parts, Water Based
22450 - Waste Water Reclamation
22500 - Water Treatment Chemicals
22550 - Weldments
22600 - Wheel Assemblies, Powered
22650 - Wire, High-Temperature
22700 - Wire Cloth

REFRACTORIES & INSULATION

Insulation

22850 - Ceramic Fiber
22900 - Felt, Graphite
22950 - Fiberglass
23000 - Fire Retardant
23050 - Fireproof
23100 - Furnace
23150 - High Temperature
23200 - Mica
23250 - Microporous Silica
23300 - Mineral Fiber Block
23350 - Structural

23400 - Alumina
23450 - Magnesite
23500 - Mica, Slip-Plane
23550 - Mortar
23600 - Mullite
23650 - Patching Material

Refractories

23750 - Alumina
23800 - Binders
23850 - Bonded
23900 - Boron Nitride
23950 - Brick
24000 - Castables
24050 - Cement
24100 - Ceramic Fiber
24150 - Coatings, Glazing and Energy Savings
24200 - Cordierite
24250 - Dolomite
24300 - Fiber Block
24350 - Firebrick
24400 - Fireclay
24450 - Foam, Ceramic/Graphite/Carbon
24500 - Fused Alumina
24550 - Fused Cast
24600 - Fused Silica
24650 - Graphite/Carbon
24700 - Gunning Material
24750 - Ladle
24800 - Monolithic
24850 - Plastic
24900 - Pre-Cast Shapes
24950 - Quartz Wool
25000 - Ramming Mixes
25050 - Refractory Adhesives, High-Temperature
25100 - Refractory Anchors
25150 - Refractory Guns & Pumps
25200 - Refractory Mixers
25250 - Refractory Systems, Suspended
25300 - Shotcrete

25350 - Silica
25400 - Silicon Carbide
25450 - Specialty
25500 - Steel Fibers
25550 - Windows, High Temperature

25600 - Silica Brick
25650 - Silicon Nitride
25700 - Textiles, High-Temperature
25750 - Tundishes
25800 - Yttria
25850 - Zirconia

CONTROLS AND INSTRUMENTATION

25950 - Actuators
26000 - Air-Fuel Mixer
26050 - Air-Gas Proportional Mixer

Analyzers

26150 - Ammonia
26200 - Chemical
26250 - Flue Gas
26300 - Gas
26350 - Hydrogen
26400 - Infrared
26450 - NOx
26500 - Oxygen
26550 - Particle / Powder
26600 - Particle Size
26650 - Power
26700 - Quench Rate
26750 - Sulphur Dioxide
26800 - Thermal

Calibration

26900 - Instruments
26950 - Management Software

27000 - Capacitors

27050 - Ceramic
27100 - Oil-Filled
27150 - Vacuum

Controllers

27250 - Carbon Potential
27300 - Multi-Loop
27350 - Power
27400 - Programmable
27450 - Proportional
27500 - Single Loop
27550 - Temperature

Controls

27650 - Adapters, Retrofit
27700 - Atmosphere
27750 - Combustion
27800 - Computerized
27850 - Energy Optimization
27900 - Flame Safeguard
27950 - Fuel/Air Mix

28000 - Gas Nitriding
28050 - Motor
28100 - Pressure
28150 - Remote Data Acquisition
28200 - Solid State
28250 - Temperature

28300 - Crack Detection, Automatic
28350 - Creep Testing Devices
28400 - Dew Point Instruments
28450 - Dew Point/Moisture Transmitters
28500 - Digital Indicators
28550 - Extensometers
28600 - Flame Detectors
28650 - Flame Safeguard
28700 - Flow Meters
28750 - Flow Meters, Electronic Readout
28800 - Fuel Meters
28850 - Galvanometers
28900 - Gas Flow Meters
28950 - Gas Metering Panels

29000 - Gauges

29050 - Air Velocity
29100 - Strain
29150 - Thickness
29200 - Vacuum
29250 - Hygrometers
29300 - Infrared Imaging Systems
29350 - Leak Detectors
29400 - Microprocessors
29450 - Nondestructive Testing Instruments

PID Tuning Software

29550 - Off-Line
29600 - On-Line
29650 - Positioners
29700 - Potentiometers
29750 - Pressure Transducers
29800 - Probes
29850 - Process Monitors
29900 - Programmers
29950 - Pyrometers
30000 - Quench Testing Devices

30050 - Recorders

30100 - Computerized
30150 - Recorder Supplies
30200 - Video

Regulators

30300 - Air
30350 - Gas
30400 - Oil
30450 - Resistors
30500 - Semiconductors

30550 - Sensors

- 30600 - Analytical
- 30650 - Carbon
- 30700 - Oxygen
- 30750 - Temperature

30800 - Software

- 30850 - Simulation
- 30900 - Complete Systems
- 30950 - Switches
- 31000 - Temperature Measuring Devices

Thermal

- 31100 - Conductivity Devices
- 31150 - Expansion Devices
- 31200 - Imagers
- 31250 - Thermocouple Wire
- 31300 - Thermocouples
- 31350 - Thermometers
- 31400 - Thermometers, Infrared
- 31450 - Thermostats
- 31500 - Thyristors
- 31550 - Transmitters
- 31600 - Tubes, Protection

Valves

- 31700 - Air
- 31750 - Butterfly
- 31800 - Flow Control
- 31850 - High-Temperature
- 31900 - Hydraulic
- 31950 - Motorized
- 32000 - Plug
- 32050 - Pneumatic
- 32100 - Relief
- 32150 - Safety
- 32200 - Shut-Off
- 32250 - Slide Gate
- 32300 - Solenoid Control
- 32350 - Vacuum
- 32400 - Weighing Systems

PARTS WASHING EQUIPMENT/SUPPLIES

- 32500 - Alkaline Cleaners
- 32550 - Dunk Washers
- 32600 - Emulsion Cleaners
- 32650 - Neutral Cleaners
- 32700 - Semi-aqueous Cleaners
- 32750 - Shot Blasting/Peening
- 32800 - Spray and Dunk Washers
- 32850 - Spray Washers
- 32900 - Vapor Degreasers

SERVICES

- 33000 - Construction/Contractors
- 33050 - Consulting
- 33100 - Energy Audit
- 33150 - Energy Conservation

- 33200 - Energy Recovery
- 33250 - Engineering Services
- 33300 - Furnace Audit
- 33350 - Furnace Rebuild/Repair
- 33400 - Heat Recovery
- 33450 - Helium Leak Detection
- 33500 - Industry Association
- 33550 - Industry Tradeshow
- 33600 - Installers
- 33650 - Oil Recovery & Recycling
- 33700 - Solvent Recovery
- 33750 - Training

CHARACTERIZATION & TESTING EQUIPMENT

- 33850 - Adhesion-/Bond-Strength Testers
- 33900 - Bend Testers
- 33950 - Borescopes, Other Visual Inspection Equipment / Systems

Chemical / Surface Analysis Equipment

- 34050 - Emission Spectrometers
- 34100 - Mass Spectrometers
- 34150 - Spot Test Kits, Metal / Alloy
- 34200 - Compression Testers
- 34250 - Corrosion Testing Equipment
- 34300 - Creep Testers
- 34350 - Dilatometers
- 34400 - Eddy Current Testers / Accessories
- 34450 - Electromagnetic Testers
- 34500 - Extensometers
- 34550 - Fastener Testers
- 34600 - Fatigue Testers
- 34650 - Film Thickness Meters
- 34700 - Flexural Testers
- 34750 - Fracture Toughness Testing Equipment
- 34800 - Furnaces / Environmental Chambers (Laboratory)

34850 - Hardness Testers

- 34900 - Accessories
- 34950 - Automatic
- 35000 - Brinell
- 35050 - Micro
- 35100 - Portable
- 35150 - Rockwell
- 35200 - Image Analysis Systems (for Quantitative Metallography)
- 35250 - Impact Testers
- 35300 - Leak Testers
- 35350 - Load Cells
- 35400 - Magnetic Particle Testing Equipment / Accessories

35450 - Metallographic Supplies

- 35500 - Grinders/Polishers
- 35550 - Specimen Prep Equipment
- 35600 - Metallographs

Microscopes

- 35700 - Accessories
- 35750 - Electron, Scanning
- 35800 - Electron, Transmission
- 35850 - Light, Metallurgical
- 35900 - Stereo
- 35950 - Modulus Testers, Dynamic
- 36000 - Penetrant Testing Equipment / Accessories
- 36050 - Porosimeters
- 36100 - Radiographic Testing Equipment/Supplies
- 36150 - Residual Stress Testers
- 36200 - Sorters (Metals and alloys)
- 36250 - Stiffness Testers
- 36300 - Tensile Testers
- 36350 - Torsion Testers
- 36400 - Ultrasonic Testers / Accessories
- 36450 - Universal Testing Machines / Accessories
- 36500 - Viscometers