

# Wrought Products Typical Uses

Copper Alloy UNS No.	Description	Aerospace	Architecture	Automotive	Builders Hardware	Consumer	Electrical	Fasteners	Industrial	Marine	Ordnance	Other	Plumbing
C24000	Low Brass, 80%		medallions, ornamental components, spandrels		decorative panels	clock dials, musical instrument parts, plaques	battery caps, rotor bars for AC motors		flexible hose, flexible hose bellows, pump lines, welding wire			tokens	
C26000	Cartridge Brass, 70%		grillwork	odometer contacts, heater cores, thermostats, electrical connectors, radiator cores, radiator tube, radiator tanks,	locks, push plates, finish hardware, kick plates, decorative hardware, door knobs, hinges	snaps, planters, fireplace screens, etched articles, bird cages, coinage, chain links, pen/pencil inserts and clips, syringe parts, watch parts, costume jewelry, buttons, shells, electrical sockets, lamps	terminal connectors, flashlight shells, lamp fixtures, reflectors, screw shells	pins, rivets, fasteners, grommets, eyelets, screws	air pressure conveyer systems, sound proofing equipment, springs, chain, bead chain, tubing for instruments and machines, heat exchangers, pump cylinders, wire screens, pumps, liners, power cylinders		ammunition cartridge cases, mechanical housings for lighters, mechanical housings for ammunition, ammunition	stencils, washers	fittings, bathroom fixtures, plumbing accessories, faucet traps, plumbing brass goods
C31400	Leaded Commercial Bronze				door knobs		electrical plug type connectors, connectors for wire and cable	nuts, screws	pickling crates, pickling fixtures, pickling racks, screw machine parts				
C31600	Leaded Commercial Bronze (nickel-bearing)				hardware		connectors	fasteners, nuts, screws	screw machine parts				
C51000	Phosphor Bronze 5% A		bridge bearing plates				resistance wire, fuse clips, electromechanical spring components, electrical flexing contact blades, electrical connectors, wire brushes, switch parts, electronic and precision instrument parts	fasteners, cotter pins, lock washers	boundon tubes, bellows, perforated sheets, chemical hardware, truss wire, springs, sleeve bushings, diaphragms, clutch disks, pressure responsive elements, beater bar, textile machinery, welding rods				
C52100	Phosphor Bronze 8% C		bridge bearing plates		thermostat bellows	power conductor for electro-surgical pencil, coinage, cymbals	electronic connectors, electrical connectors, cold flexing contact blades, electrical flexing contact blades, wire brushes, switch parts, fuse clips	cotter pins, fasteners, heavy duty, lock washers	cold headed parts, thrust bearings, truss wire, pneumatic hammers, doctor blades, paper industry, boundon tubing, well drilling equipment, clutch disks, welding wire, diaphragms, beater bar, bellows, springs, helical extension, springs, helical torsion, clips, heavy duty, gears, pinions, textile machinery, perforated sheets, chemical hardware, springs, heavy duty, sleeve bushings	marine parts			
C53400	Phosphor Bronze B-1								bushings, bearings, fasteners				

## Wrought Products Typical Uses (continued)

Copper Alloy UNS No.	Description	Aerospace	Architecture	Automotive	Builders Hardware	Consumer	Electrical	Fasteners	Industrial	Marine	Ordnance	Other	Plumbing
C54400	Phosphor Bronze B-2						electrical connectors		bushings, gears, pinions, screw machine products, thrust washers, valve parts, sleeve bearings, thrust bearings, bearings, shafts				
C63000	Nickel Aluminum Bronze								valve seats, plunger tips, condenser tube for power stations and desalting units, shafting, pump parts, cams, gears, valve guides, aircraft parts, pump shafts, structural members, corrosion resistant articles, hydraulic bushings for earth moving equipment, valve balls, bushings, bearings, heat exchanger flanges, heat exchanger headers, tanks, welded piping systems, balls	nuts, propellers, pump parts, bolts, ship propellers			faucets
AMS 4590-C64200	Nickel Aluminum Bronze	bushings, gears							bearings, forming dies for roll bearings, hydraulic bushings for earth moving equipment, valve balls, valve parts-cryogenic, wear plates, dies	valves, hydraulic blocks, fixtures, fittings			
C64200	Aluminum Bronze			valve guides, automobile engine			pole line hardware	nuts, bolts	valve bodies, valve stems, gears, cams, valve components	hardware			
C64210	Aluminum Silicon Bronze						pole line hardware		bushings, aircraft, valve bodies, valve stems, pickling equipment, bearings, high-strength/corrosion-resistant chemical process equipment	nuts, bolts, lock washers, screws			
C65100	Low-Silicon Bronze B						conduit, pole line hardware, motor, rotor bars	bolts, cable clamps, cap screws, machine screws, nuts, rivets, u bolts, fasteners, screws	oil refinery plumbing tube, heat exchanger tube, welding rod, hydraulic pressure lines	hardware			
C67300	Manganese Bronze							fasteners, lead screw nuts	bearings, bushings, drive shafts, gears/cams, idler pins, piston heads, propeller shafts, pump parts, seal rings, shaft bushings, sleeve bearings, spindles, thrust bearings, wear plates, clutch bearings	hardware, valve seats		connecting rods	
C67600	Manganese Bronze								gate valve stems, valve balls, welding rod				
C69400	Silicon Red Brass								valve stems				
C69430	Silicon Red Brass								valve stems				