

Cast Corrosion Resistant Stainless Steels: Applications

Some representative applications of various cast stainless steel. List is not complete. Ref: ASTM A 743, A744, A 351;/ISO/DIN/BS

ACI Designation	Formula	Specification ASTM	Applications
CA-6NM	12Cr-4Ni-0.7Mo	A487, A351	Major use in large hydraulic turbine runners for power generation; other uses include casings, compressor impellers, diaphragms, discharge spacers, impulse wheels, packing housings, propellers, pump impellers, suction spacers, valve bodies and parts in chemical marine, petrochemical, pollution control, and power plant industries.
CA-15 CA-15M	12Cr-0.1C	A217, A743	Burning torch gas distributor heads, bushings & liners, catalyst trays, fittings, furnace burner tips & pilot cones, gears, hydration parts, impellers, jet engine components, letters, plaques, pump casings, railings, shafts, ship propellers, skimmer ladles, stuffing boxes, turbine blades, valve bodies, valve trims.
CA-40	12Cr-0.3C	A743	Various castings used in food processing, glass, oil refining, power plants, pulp & paper making
CB-7Cu	16Cr-4Ni-3Cu	A747	Various castings where machining is involved; in aerospace, aircraft, chemical, food processing, gas turbine, marine, petrochemical, pulp & paper industries.
CB-30	20Cr	A743	Various castings used in chemical processing, food processing, heat treating, oil refining, ore roasting and power plant equipment.
CC-50	28Cr	A743	Various castings used in chemical manufacturing, mining, pulp and paper making, and synthetic fibre manufacturing equipment.
CD-4MCu	26Cr-5Ni-2Mo-3Cu	A351, A743 & A744	Various castings used in the chemical processing, marine, municipal water supply, paint, petroleum refining, power plant, pulp & paper, soap & detergent manufacturing, textile & transportation industries.
CE-30	29Cr-9Ni	A743	Various castings used in chemical processing, mining, oil refining, pulp & papermaking, synthetic fibre manufacturing.
CF-3 CF-3A	19Cr-10Ni	A743, A744, A351	Widely used in riverboat service, beverage, brewery, distillery, food, heavy water manufacturing, marine, nuclear power, petroleum, pipeline, soap & detergent.
CF-3M CF-3MA	19Cr-11Ni-2.5Mo	A743, A744, A351	Mixer parts, pump casings and impellers, tubes, valve bodies and parts requiring field welding where post weld treatment is inconvenient or impossible
CF-8, CF-8A	19Cr-9Ni	A743, A744,	Various castings used in the aircraft, aerospace, architectural, beverage & brewing,

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		A351	brass mill, chemical processing, electronic food processing, marine, military and naval, nuclear power, oil refining, oxygen manufacturing, pharmaceutical, photographic, plastics, power plant, pulp & paper, sewage, soap manufacturing, steel mill, synthetic fibre and textile industries.
CF-8C	19Cr-10Ni-1Nb	A743, A744, A351	Various castings used in the aircraft, nuclear, chemical processing, marine, oil refining & plastic industries.
CF-8M CF-12M	19Cr-10Ni-2.5Mo	A743, A744, A351	Various castings for use in aircraft, chemical processing, electronic, nuclear, fertilizer, food, marine, mining, oil refining, guide missile, pharmaceutical, medical body implants, photographic, plastics, power plant, soap, synthetic fibre, synthetic rubber and textile industries.
CF-16F	19Cr-10Ni-0.3Se-0.12C	A743	Bearings, bushings, fitting, flanges, machinery parts, pump casings and valves.
CF-20	19Cr-9Ni-0.20C	A743	Various castings used in the architectural, chemical processing, explosives manufacturing, food and dairy, marine, oil refinery, pharmaceutical, power plant, pulp & paper and textile industries.
CG-8M	19Cr-11Ni-3.5Mo	A743, A744	Dyeing equipment, flow meter components, propellers, pump parts, valve bodies and parts used in heavy water manufacturing, nuclear, petroleum, pipe line, power, pulp & paper, printing & textile industries.
CH-10 CH-20	24Cr-13Ni	A743, A351	Digester fittings, pump and parts, roasting equipment, valves and water strainers for use in chemical processing, power plants, pulp and paper making.
CK-20	25Cr-20Ni	A743, A351	Various castings used in special service conditions at high temperatures where specific requirements warrant the cost, in aircraft, chemical processing, oil refining, and pulp & paper manufacturing
CN-7M CN-7MS	20Cr-29Ni-2.5Mo-3.5Cu	A743, A744, A351	Various castings used in chemical processing, metal cleaning and plating, mining, munitions manufacturing, oil refining, paint and pigment, pharmaceutical, plastics, pulp and paper, soap and detergent, steel mill, synthetic rubber, textile and dye industries.
Illium P	28Cr-8Ni-2Mo-3Cu		Castings used in phosphoric acid and other chemicals
Illium PD	27Cr-5Ni-2.5Mo-7Co		Castings used in food processing, chemical, alumina refining, pulp and papermaking industry.

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