



HYOZMA PRECISION CASTINGS LTD

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CORROSION & HEAT RESISTING STEELS

ANC 1A*** 1B*** 1C***	13% Cr Ferritic/ Martensitic (Stainless)	—0.15 0.12 0.20 0.20 0.30	0.2 1.2 0.2 1.2 0.2 1.2	0.2 1.0 0.2 1.0 0.2 1.0	—1.0 —1.0 —1.0	11.5 13.5 11.5 13.5 11.5 13.5	— — — — — —		540 -- 620 -- 695 --	340+ 415+ 435+	15 13 13		152 207 183 229 201 255	56A 410S21 56B 420S29 56C 420S37	— — —	403 420 420	Z10C13 Z15C13 Z20C13	1.4008 1.4027	Medium corrosion resistance and a range of strengths and hardnesses . ANC 1A - Chemical industry use. High ductility engineering parts. ANC 1B - Heat resistant parts not highly stressed.ANC 1C - Cutting blades, pumps, steam turbines.
ANC 2	18 Cr 2 Ni Martensitic (Stainless)	0.12 0.25	0.2 1.0	0.2 1.0	1.5 3.0	15.5 20.0	—		850 1000	630+	8		248 302	57 431S29	—	431	Z22 CN 18.02	1.4059	High tensile stainless with improved corrosion resistance. Resists oxidising . atmospheres to 760oC Pumps and Valves. Highly stressed aircrafts and engineering parts.
ANC 3A*** 3B***	18 Cr 8 Ni Austenitic (Stainless)	—0.12 —0.12	0.2 2.0 0.2 2.0	0.2 2.0 0.2 2.0	8.0 12.0 8.5 12.0	17.0 20.0 17.0 20.0	— Nb 8XC min 1.1 max		460 -- 460 --	200 200	20 20		— — — —	58A 302S25 58F 347S17	— HC104	304 347	Z12 CN 18.10 Z8 CN N18.10	1.4312 1.4552	ANC 3A - Corrosion and acid resistant stainless, excellent stability to -225oC. Chemical, textile, dairy and food industries, pumps and valves. ANC 3B - Weldable version usable up to 800oC. Exhaust and marine parts to a certain extent. Corrosion/acid resisting parts not heat treated after welding.
ANC4A*** 4B*** 4C***	18 Cr 11 Ni 3 Mo Austenitic (Stainless)	—0.08 —0.08 —0.12	0.2 1.5 0.2 1.5 0.2 1.5	0.2 2.0 0.2 2.0 0.2 2.0	11.0 14.0 10.0 -- 10.0 --	18.0 20.0 17.0 20.0 17.0 20.0	3.0 4.0 2.0 3.0 2.0 3.0	— — Nb 8XC min 1.1 max	500 -- 500 -- 500 --	210+ 210+ 210+	12 12 12		— — — — — —	58J 317S16 58H 316S16 58H 320S17	— HC105	317 316 318	Z6 CND 19.12.03 Z6 CND 17.11.03 Z6 CND NB17.11.03	1.4408 1.4408 1.4581	Good corrosion and acid resistance with medium tensile strength. Chemical and processing industries - valves/pumps for acids at high temperature also chlorides and salts.
ANC 5A 5B 5C	Heat Resist Ni Cr Alloys	—0.5 —0.5 —0.75	0.2 3.0 0.2 3.0 0.2 3.0	0.2 2.0 0.2 2.0 0.2 2.0	17.0 22.0 36.0 46.0 55.0 65.0	22.0 27.0 15.0 25.0 10.0 20.0	— — — — — —		— — — — — —	— — —	— — —		— — — — — — — — —	310S24	—	310 330 —	Z12 CNS 25.21 Fe N37 C18S NC 15 Fe	1.4843 1.4865 2.4867	Heat resistant alloys. Resistant to cyclic heating and useful creep strength up to 650oC. Good resistance to scaling. Furnace parts, salt and lead baths.
ANC 6A 6B 6C	Heat Resist Cr-Ni Alloys	0.15 0.3 0.15 0.3 0.05 0.15	0.8 2.0 0.8 2.0 0.8 2.0	0.2 1.0 0.2 1.0 0.2 1.0	10.0 15.0 10.0 15.0 10.0 18.0	20.0 25.0 20.0 25.0 20.0 25.0	— — — — — —	W2.5/3.5 W2.5/3.5	460 -- 460 -- 460 --	— — —	17 17 17		— — — — — — — — —	55	—	309	Z20 CNS 25.12 Z25 CNS W22 Z15 CNW S22.13	1.4837	Heat resistant with good strength upto 900oC and useful creep strength up to 650oC. Heat treatment parts and superheaters, welding fixtures, nozzle guide vanes for gas turbines.
ANC 8	Nimocast 75 (Proprietary alloy)	0.08 0.15	0.2 1.0	0.2 1.0	Balance	18.0 22.0	— —	Ti 0.2/0.6 Fe 5.0 max Al 0.3 max	— —	—	—		— —	— —	—	—	—	—	Readily weldable heat resistant alloy. Excellent resistance to oxidation up to 1100oC and with useful strength. Furnace parts.
ANC 20A 20B	Precipitation Hardening Stainless	—0.07 —0.07	0.2 2.0 0.2 2.0	0.2 1.0 0.2 1.0	3.0 6.0 3.0 6.0	12.5 15.5 12.5 15.5	0.5 2.5 0.5 2.5	Cu 1.0/3.5 Nb 0.5 max S 0.025 max P 0.025 max	950 1200 1250 1500	800 950	12 8	15 8	— — — —	— — — —	— —	— —	— —	— —	High strength with good corrosion resistance, good weldability. Variety of strengths depending on heat treatment. Aerospace and marine parts.
ANC 22A 22B 22C	17/4 PH Prec. Hard Stainless	—0.06 —0.06 —0.06	—1.0 —1.0 —1.0	—0.7 —0.7 —0.7	3.6 4.6 3.6 4.6 3.6 4.6	15.5 16.7 15.5 16.7 15.5 16.7	— — —	Cu 2.8/3.5 Nb 0.15/0.4 N2 0.05 max	1230 -- 1030 -- 900 --	1030 895 830	8 8 8		361 -- 313 -- 294 --	— — — — — —	— — —	— — —	AMS 5355 AMS 5343 AMS 5342	1.4549 1.4549 1.4549	