



WEAR RESISTANT ALLOYS

Alloy	C	Chemical Composition				Hardness		Fracture Toughness MN/m ²	Tensile Strength MN/m ²	BS 4844	ASTM A532	DIN 1695
		Mn	Ni	Cr	Mo	Hv	HRC					
NF 122	2.0	0.5	-	12	-	650	58	25	750	Sec 4 Gr 3F	-	-
NF 123	3.0	0.5	-	12	-	800	64	20	750	Sec 4 Gr 3G	CL II Type A	-
NF 151	1.2	0.5	-	15	0.7	750	62	30	750	-	-	-
NF 151M	1.5	0.8	-	13	1.4	525	52	32	800	-	-	-
NF 153	3.0	0.8	-	15	2.5	800	64	25	900	Sec 4 Gr 3A, 3B	CL II Type B,C	GX300 Cr Mo 153
NF 202	2.0	0.8	0.5	20	2.0	700	60	28	950	Sec 4 Gr 3C	CL II Type D	GX260 Cr Mo Ni 2021
NF 203	3.0	0.8	0.5	20	2.0	750	62	28	950	Sec 4 Gr 3C	CL II Type E	GX260 Cr Mo Ni 2021
NF 253AC	2.8	1.0	-	25	-	600	56	22	550	Sec 4 Gr 3E	CL III Type A	GX260 Cr 27
NF 253HT	2.8	1.0	-	25	-	750	62	22	850	Sec 4 Gr 3E	CL III Type A	GX260 Cr 27
NF 253A	2.8	1.0	-	25	-	400	42	22	650	Sec 4 Gr 3E	CL III Type A	GX260 Cr 27
NF254H	3.6	1.0	-	25	-	850	66	22	700	-	-	-
NF 303AC	2.5	0.6	-	30	0.5	600	56	25	500	-	-	-
NF 303HT	2.5	0.6	-	30	0.5	750	62	25	700	-	-	-
MOKRO	2.9	0.5	-	25	2.0	800	64	28	1000	-	-	GX300 Cr Mo 271
TUFCHROME	2.4	0.8	-	15	2.2	400	42	40	500	-	-	-
NF 423	3.0	0.5	4.0	2.0	-	600	56	18	345	Pt 2 Gr 2B	CL I Type A,B	GX330 Ni Cr 42
NF 683	3.0	0.5	6.0	8.0	-	650	58	20	550	Pt 2 Gr 2D	CL I Type D	GX300 Cr Ni 952
NF 1105	0.5	1.2	2.0	1.1	0.5	400	42	50	825	-	-	-
NF 1105S	0.2	1.2	-	7.0	-	450	46	60	700	-	-	-
NF 1708	0.8	-	-	1.7	-	350	37	50	-	-	-	-

HEAT RESISTANT ALLOYS

Alloy	Chemical Composition				Coeff Thermal Expansion x10 ⁻⁶ /°C	Hardness		Max Operating Temp °C	Tensile Strength			BS 3100	ASTM A297	DIN 17465
	C	Mn	Ni	Cr		Hv	HRC		Room Temp MN/m ²	Elevated Temp				
										MN/m ²	@°C			
NF 061	1.0	1.0	-	6.0	13.5	280	28	750	600	-	-	-	-	GX30 Cr Si 6
NF 201	1.0	2.0	-	20	13.5	280	28	900	425	85	760	-	-	-
NF 25/6	1.0	2.0	6.0	25	13.7	300	31	1000	575	90	980	-	-	-
NF 25/12	0.5	2.0	12	25	19.8	185	-	1050	570	70	980	309 C 30	Type HH	GX40 Cr Ni Si 2512
NF 25/20	0.5	2.0	20	25	18.5	180	-	1100	500	75	980	310 C 45	Type HK	GX40 Cr Ni Si 2520
NF 281	1.0	1.0	-	28	13.5	290	30	1050	475	90	760	452 C 11	Type HC	GX40 Cr Ni Si 29
NF 282	2.0	1.0	-	28	12.5	320	33	1050	675	90	760	452 C 12	-	GX130 Cr Ni Si 29
NF 18/37	0.4	1.5	37	18	17.5	180	-	1100	475	85	980	331 C 40	Type HU	-
NF 15/55	0.5	3.0	55	15	17.0	200	-	1100	500	110	980	334 C 11	Type HW	-