

### Haynes International

#### NICKEL BASED ALLOYS

IN.		MM.		GRADES OFFERED
OUTSIDE DIAMETER	WALL THICKNESS RANGE	OUTSIDE DIAMETER	WALL THICKNESS RANGE	
2.375	0.190 – 0.254	60.325	4.826 – 6.4516	C-276 & C-22 HS
2.875	0.217 – 0.405	73.025	5.5118 – 10.2870	C-276 & C-22 HS
3.500	0.216 – 0.449	88.900	5.4864 – 11.4046	C-276 & C-22 HS
4.000	0.226 – 0.500	101.600	5.7404 – 12.7000	C-276 & C-22 HS
4.500	0.224 – 0.500	114.300	5.6896 – 12.7000	C-276 & C-22 HS

### Sandvik Materials Technology

#### DUPLEX & NICKEL BASED ALLOYS

IN.		MM.		GRADES OFFERED
OUTSIDE DIAMETER	WALL THICKNESS RANGE	OUTSIDE DIAMETER	WALL THICKNESS RANGE	
2.875	0.217 – 0.440	73.025	5.5118 – 11.1760	SAF 2205, SAF 2507, Sanicro 28 & 29
3.500	0.254 – 0.510	88.900	6.4516 – 12.9540	SAF 2205, SAF 2507, Sanicro 28 & 29
4.000	0.262 – 0.330	101.600	6.6548 – 8.3820	SAF 2205, SAF 2507, Sanicro 28 & 29
4.500	0.271 – 0.500	114.300	6.8834 – 12.7000	SAF 2205, SAF 2507, Sanicro 28 & 29
5.000	0.253 – 0.500	127.000	6.4262 – 12.7000	SAF 2205, SAF 2507, Sanicro 28 & 29
5.500	0.275 – 0.530	139.700	6.9850 – 13.4620	SAF 2205, SAF 2507, Sanicro 28 & 29
6.625	0.288 – 0.417	168.275	7.3152 – 10.5918	SAF 2205, SAF 2507, Sanicro 28 & 29
7.000	0.272 – 0.498	177.800	6.9088 – 12.6492	SAF 2205, SAF 2507, Sanicro 28 & 29

### SMST-Tubes

#### DUPLEX, SUPER DUPLEX & NICKEL BASED ALLOYS

IN.		MM.		GRADES OFFERED
OUTSIDE DIAMETER	WALL THICKNESS RANGE	OUTSIDE DIAMETER	WALL THICKNESS RANGE	
2.875	0.217 – 0.440	73.025	5.5118 – 11.1760	DMV-22.5, 25.7, 25.7N, 928, 825, G-3 & C-276
3.500	0.254 – 0.510	88.900	6.4516 – 12.9540	DMV-22.5, 25.7, 25.7N, 928, 825, G-3 & C-276
4.000	0.262 – 0.330	101.600	6.6548 – 8.3820	DMV-22.5, 25.7, 25.7N, 928, 825, G-3 & C-276
4.500	0.271 – 0.500	114.300	6.8834 – 12.7000	DMV-22.5, 25.7, 25.7N, 928, 825, G-3 & C-276
5.000	0.253 – 0.500	127.000	6.4262 – 12.7000	DMV-22.5, 25.7, 25.7N, 928, 825, G-3 & C-276
5.500	0.275 – 0.530	139.700	6.9850 – 13.4620	DMV-22.5, 25.7, 25.7N, 928, 825, G-3 & C-276
6.625	0.288 – 0.417	168.275	7.3152 – 10.5918	DMV-22.5, 25.7, 25.7N, 928, 825, G-3 & C-276
7.000	0.272 – 0.498	177.800	6.9088 – 12.6492	DMV-22.5, 25.7, 25.7N, 928, 825, G-3 & C-276

All dimensions are per API 5CT / Minimum Yields of 80-160+

**“TYPICAL” CHEMISTRIES**

Comparable Grades	“Typical” Available Yields - ksi	Carbon	Chrome	Nickel/Cobalt	Molybdenum	Titanium	Tungsten
C-22HS	110/125/140/160/180+	0.01	21	57 as balance	17	n/a	1 max
C276, Alloy C276	110/125/140/160	0.01	14.5 - 16.5	57 nom	15 - 17	n/a	3 - 4.5
725, 625 Plus [Precipitation Hardened]	110/125/140	0.03	19.0 - 22.5	55 - 59	7 - 9.5	1 - 1.7	n/a
Alloy 050, G50	110/125/130/140	.02 max	19.0 - 21	50 min	8 -10	n/a	0.4
G3	110/125/130/140	0.015	21 - 23.5	44 nom	6 - 8	n/a	1.5
2550, G2	110/125/140	0.03	25 nom	50 nom	6 nom	1.5	n/a
925 [Precipitation Hardened]	110/115	0.03	19.5 - 22.5	42 - 46	2.5 - 3.5	1.9 - 2.3	n/a
718 [Precipitation Hardened]	110/125/130	0.08	17.0 - 21.0	50 - 55	2.80 - 3.30	.65 - 1.15	n/a
825, 2242, NIC 42	110/115/120	0.05	19.5 - 23.5	38 - 46	2.5 - 3.5	.6 - 1.2	n/a
Alloy 28, 2832, 28 Chrome, 928	110/120/125	0.03 max	26 - 28	30 - 34	3 - 4	n/a	n/a
2535	110	0.03	25 nom	35 nom	3 nom	0.50	n/a
2035	110	0.03	22 nom	35 nom	4.5 nom	0.50	n/a
DMV 25.7N, 25 Chrome W, 2507W	110/125/130/140	0.03	24 nom	6 nom	3 nom	n/a	0.50
DMV 25.7, 25 Chrome, 2507, 918	110/125/130	0.03	24 nom	5.5 nom	2.50 nom	n/a	0.10
DMV 22.5, 22 Chrome, 2205	110/125/130	0.03	21 nom	4.5 nom	2.50 nom	n/a	n/a
UHP	125	0.03	14.7	6.25 nom	1.95 nom	n/a	n/a
Hyper13 Type II, Super13 Chrome	95/110	0.004 max	12 - 14	4.5 nom	1.80 - 2.50	n/a	n/a
Hyper13 Type I, 13 Chrome Modified	95/110	0.004 max	12 - 14	3.5 nom	.80 - 1.50	n/a	n/a
13 Chrome	80/85/95	0.15 - 0.22	12 - 14	max 0.50	n/a	n/a	n/a

Energy Alloys offers a full product line supporting Energy OCTG’s products, with alloys from 4140 through C-22HS, which includes 825, 718, 925 & 625+ for accessories to compliment our CRA OCTG tubing and casing. Energy Alloys is the parent company of Energy OCTG, and is an established and trusted provider, partner and problem-solver for oilfield metals to global oil and gas manufacturers and service companies. Founded in 1995, the Houston-based company has operations in the UK; Dubai, U.A.E.; Edmonton, Canada; Monterrey, Mexico; Singapore, S. Korea and U.S. operations in Houston, Texas; Tulsa, Oklahoma; and Lafayette, Louisiana.