

Material Data Sheet

Alloys in common use - Physicals

Alloy	ASTM	ACI	Hardness (typical)	Tensile Strength (min)	Yield Strength (min)	Elongation
Alloy 20	A743-Gr.	CN7M	125-160 BHN	62,000 psi	25,000 psi	35% min
CD4MCu	A351		245-265	100,000 min	70,000	16%
WCD4	A351		320-350	137,000	88,000	16%
304L	A743	CF-3	170	75,000	30,000	35%
316L	A743	CF8M	180	70,000	30,000	30%
Hastelloy B-2	N/A	N-7M	190-210	76,000	40,000	20%
Hast. CW-2M	N/A Proprietary	CW-7M	140-170	73,000	40,000	60%
Hastelloy G30	N/A	CX2MW Mod.	190-250	80,000	45,000	30%
Nihard 4	A532 Class I, Type D		650	60,000		
White Iron	A532 similar		400-460	45,000		
Maxalloy 2	A532 Class II, Type B		650-720	60,000		
Maxalloy 5	A532 Class III, Type A		580-675	80,000		
Maxalloy 10	Proprietary		365-420	63,500	63,500	1.00%
Ductile Iron D65	A536, Grade 65-45-12		140-180	65,000	45,000	12%
Grey Iron	A48, Class 30B		150-200	30,000		
WMS (Wilfley mild steel)	AISI 4140		185-220	90,000	60,000	20%
WMS (Wilfley mild steel)	AISI 4340		302-341	130,000	105,000	14%