

Quadro 4 - Aços para moldes: Características

EN	Densidade, g/cm ³	Módulo Young, GPa	Tensão cedência, MPa	Tensão rotura, MPa	Alongamento Rotura, %	Dureza Brinell, BH	Condutividade Térmica, W/m °K	Capacidade Calorífica, J/g °C	Coef. Dilat. térmica, 10 ⁻⁶ m/m °K	Coefficiente de Poisson
1.1520	7,87	200	385	703	12	212	51,9	0,490	12,6	0,29
1.1525	7,84	208	–	805-1000	1-5	247-285	50,2	0,490	11,0	0,27-0,30
1.1535	7,70	200	623	919	23	314	25,0	0,460	14,4	0,10
1.1545	7,83	205	1030	1475	12	575	48,0	0,461	12,2	0,28
1.1555	7,70-8,03	190-210	1034	1158	15	335	–	0,500	16-17	0,27-0,30
1.1730	7,85	206	842	1343	16	390	49,8	0,486	13,0	0,29
1.2330	7,85	205	827-862	965-1030	20	300	–	–	12,8	0,27-0,30
1.2344	7,80	210	1650	1990	9	52-54	29,0-34,0	0,460	11,5	0,30

Quadro 5 – Ver mais informações sobre estes tipos de aços, nos endereços:

EN	UNS	Designação	Endereço
1.1520	G10700	AISI 1070 Steel, hot rolled	http://www.matweb.com/search/DataSheet.aspx?MatGUID=9506f59dc73d41a7aboda119f6775358
1.1525	T72301	Carbon Tool Steel SK5	http://www.tokkin.com/materials/special_steel/special_steel#1
1.1535	T72301	ASTM W109 Extra	http://www.steelgr.com/Steel-Grades/Tool-Steel/astm-w109-extra.html
1.1545	T72301	AISI Type W1 Tool Steel, austenitized at 785-815°C (1450-1500°F)	http://www.matweb.com/search/DataSheet.aspx?MatGUID=3980e8446c6740b5b4bda7d79b5a517a
1.1555	–	Tool steel C120U	http://www.steelss.com/Tool-steel/c120u.html
1.1730	–	AISI 1045 Steel, Quenched and Tempered to 390 HB	http://www.matweb.com/search/DataSheet.aspx?MatGUID=507031d65a684d96b1d6ee4d6d5d5cf3
1.2330	–	AISI Type P20	http://www.matweb.com/search/DataSheet.aspx?MatGUID=2957f352a2e84857a9c41d2f31d063ec
1.2344	T20813	AISI Type H13 Hot Work	http://www.matweb.com/search/DataSheet.aspx?MatGUID=e30d1d1038164808a85cf7ba6aa87ef7