

STANDARD REFERENCE:
 ASTM A 320

RODACCIAI REFERENCES AND COMPARABLE STANDARDS

EUROPE		ITALY	GERMANY		FRANCE	UK	USA
EN 10083-3: 2006		(UNI 7845 - 78)	(DIN 17200 - 86)		(NF A 35-552-86)	(BS 970 pt. 1 - 96)	ASTM A 320
Grade	N°		Werkstoff	N°			
42CrMo4	1.7225	42CrMo4	42CrMo4	1.7225	42 CD 4	708M40	L7 - L7M 4140 - 4142

CHEMICAL COMPOSITION (CAST ANALYSIS) (%)

C	Si	Mn	P / max	S / max	Cr	Mo	Al
0,38 ÷ 0,48	0,15 ÷ 0,35	0,75±1,00	0,035	0,040	0,80 ÷ 1,10	0,15 ÷ 0,25	0,020÷0,050

MECHANICAL PROPERTIES - QUENCHED

	Size mm	Rp _{0.2} (MPa) min	R _m (MPa) min	A ₄ (%) min	Z (%) min	KV (J) min	Hardness max
A320L7	≤65	725	860	16	50	27 (-101°C)	321 HB or 35 HRC
L7M*	≤65	550	690	18	50	27 (-73°C)	235 HB or 99 HRB

* minimum tempering temperature 620°C

WORKING TEMPERATURES RECOMMENDED

Operation	Hot forgings deformation	Normalizing	Soft annealing	Quenching in oil or water	Tempering
°C	850÷1150	850÷880	680÷720	830÷850	620÷650



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SPECIAL STEELS
 AMERICAN STANDARDS ASTM

A320 L7 - L7M

