

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
A320L7 L7M	Grade	N°		Werkstoff	N°			
	42CrMo4	1.7225	42CrMo4	42CrMo4	1.7225	42 CD 4	708M40	L7 - L7M

### CHEMICAL COMPOSITION (CAST ANALYSIS) (%)

	C	Si	Mn	P / max	S / max	Cr	Mo	Al
A320L7 L7M	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	R <sub>p0.2</sub> (MPa) min	R <sub>m</sub> (MPa) min	A <sub>4</sub> (%) min	Z (%) min	KV (J) min	Hardness max
A320L7	≤65	725	860	16	50	27 (-101°C)	-
L7M*	≤65	690	550	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

