

Corrispondenze
Comparable standards

Sostituisce / *Replace* 42CrMo4 UNI 7845

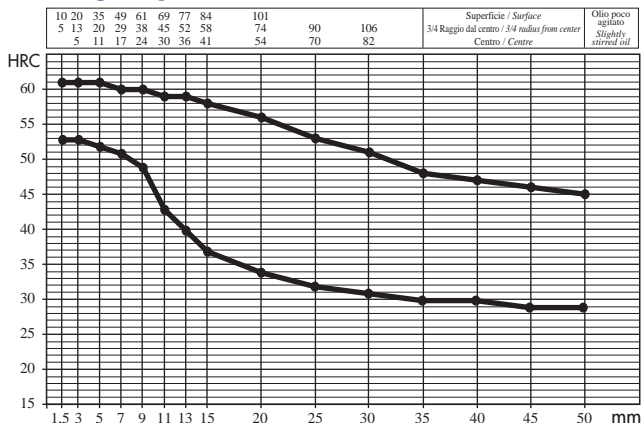
Composizione
Chemical analysis

	C	Mn	Si	Cr	Ni	Mo
	.38÷.45	.60÷.90	≤ .40	.90÷1.20	-	.15 ÷ .30

Caratteristiche meccaniche / *Mechanical analysis*

Stato <i>Condition</i>	Saggio Ø mm. <i>Specimen Ø mm.</i>	Re min. <i>N/mm2</i>	Rm <i>N/mm2</i>	A min. <i>%</i>	KV min. <i>J</i>
Bonificato <i>Hardened and tempered</i>	≤ 16	900	1100÷1300	10	30
	16÷40	750	1000÷1200	11	35
	40÷100	650	900÷1100	12	35
	100÷160	550	800÷950	13	35
	160÷250	500	750÷900	14	35

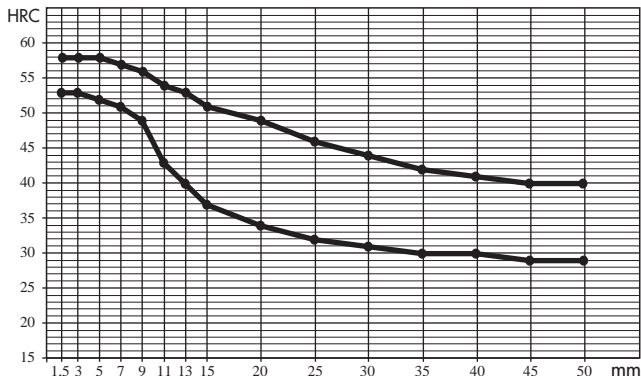
42CrMo4 H



Temperabilità Jominy
Jominy hardenability

Distanza dall'estremità temprata <i>Distance from quenched end</i>	Durezza Rockwell <i>Rockwell hardness</i>	
mm.	HRc min	HRc max
1,5	53	61
3	53	61
5	52	61
7	51	60
9	49	60
11	43	59
13	40	59
15	37	58
20	34	56
25	32	53
30	31	51
35	30	48
40	30	47
45	29	46
50	29	45

42CrMo4 HL

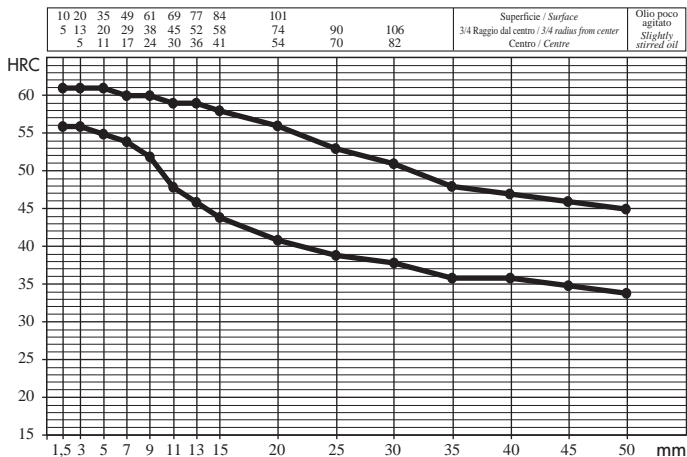


Temperabilità Jominy
Jominy hardenability

Distanza dall'estremità temprata <i>Distance from quenched end</i>	Durezza Rockwell <i>Rockwell hardness</i>	
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3	53	58
5	52	58
7	51	57
9	49	56
11	43	54
13	40	53
15	37	51
20	34	49
25	32	46
30	31	44
35	30	42
40	30	41
45	29	40
50	29	40

42CrMo4

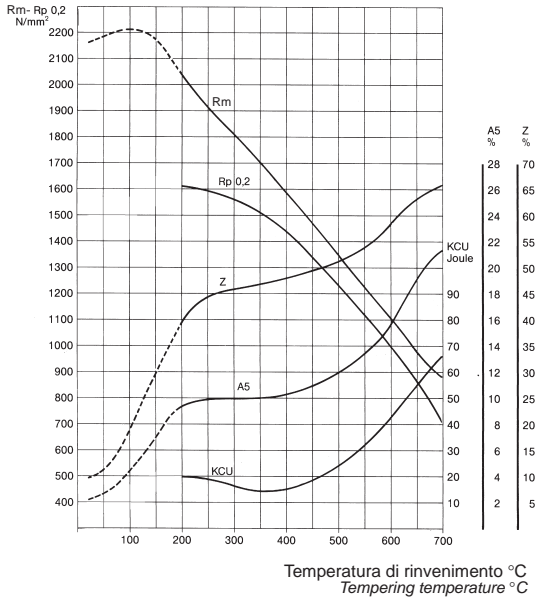
42CrMo4 HH



Temprabilità Jominy Jominy hardenability

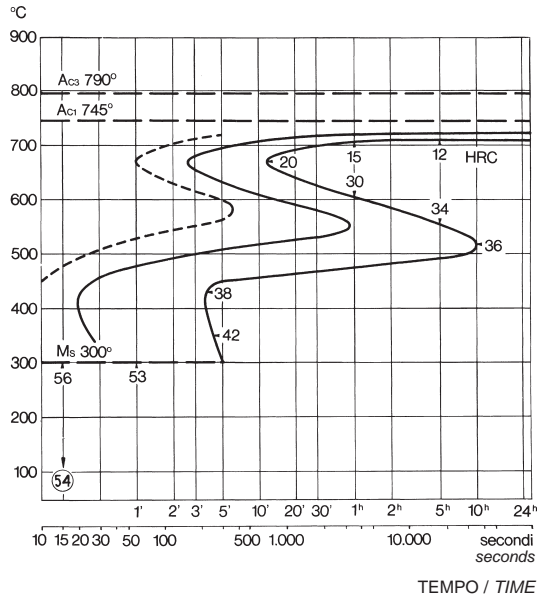
Distanza dall'estremità temprata Distance from quenched end	Durezza Rockwell Rockwell hardness	
mm.	HRc min	HRc max
1,5	56	61
3	56	61
5	55	61
7	54	60
9	52	60
11	48	59
13	46	59
15	44	58
20	41	56
25	39	53
30	38	51
35	36	48
40	36	47
45	35	46
50	34	45

Diagramma di Rinvenimento Tempering curve



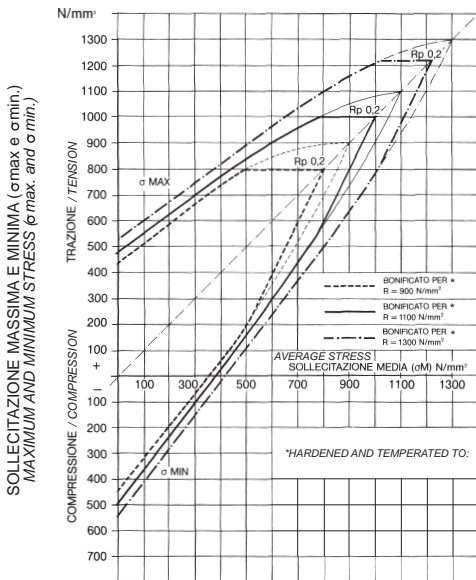
Tratt.: su Ø 11 mm Tempra: 850 °C olio Rinv. per 2 ore
 Treatment: on Ø 11 mm Hardening: 850 °C oil Tempering for 2 hours

Diagramma T.T.T. T.T.T. diagram



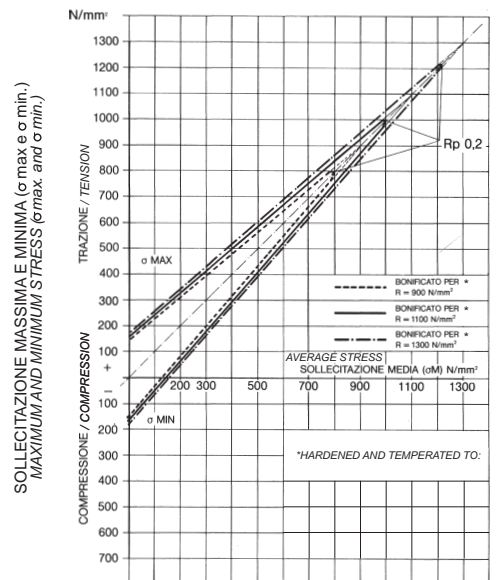
Quadro: 10 mm Austenitizzazione: 850 °C
 Square: 10 mm Austenizing: 850 °C

Diagramma di Goodman-Smith - Goodman-Smith diagram



Provette non tagliate Ø 10 mm. con superficie speculare (Ra ≤ 0.1 micron)
 10 mm Ø non-notched test specimens with mirror surface (ra ≤ 0.1 micron)

Diagramma di Goodman-Smith - Goodman-Smith diagram



Provette Ø 10 mm. con intaglio profondo 0,92 mm e raggio di raccordo a fondo intaglio = 0,21 mm (corrispondente alla filettatura M 10 passo grosso) sollecitazione unitaria calcolata sulla sezione di fondo intaglio.
 10 mm diameter test specimens with 0.92 mm deep notch and radius at bottom of notch = 0.21 mm (corresponding to M 10 large pitch thread) unitary stress calculated on the bottom of notch section.