

DELIVERY CONDITIONS

Quenched and tempered.

PROPERTIES AND MOST COMMON APPLICATIONS

Good machining in quenched and tempered condition. Its most common applications are for high-strength bolts, gears, crankshafts, connection rods, sleeves, shafts for machinery and engines.

DIMENSIONS IN STOCK MM.



Quenched and tempered: 16-715

APPLICABLE STANDARD

EN 10083-3

CHEMICAL COMPOSITION

	C	Mn	Si	P	S	Cr	Mo
MIN	0,38	0,60				0,90	0,15
MAX	0,45	0,90	0,40	0,025	0,035	1,20	0,30

HEAT TREATMENTS - APPROXIMATE TEMPERATURES

Annealed °C	Quenched °C	Tempered °C
680-720	820 - 860 Oil	540-680

MECHANICAL PROPERTIES

Mechanical properties at room temperature in quenched and tempered condition (+QT).

Dimensions	Re (N/mm ²)	Rm (N/mm ²)		A (%)	Z (%)	KV (J)	Guidance hardness
mm.	min.	min.	máx.	min.	min.	min.	HB
≤ 16	900	1100	1300	10	40	-	325-380
> 16 ≤ 40	750	1000	1200	11	45	35	294-353
> 40 ≤ 100	650	900	1100	12	50	35	269-326
> 100 ≤ 160	550	800	950	13	50	35	238-282
> 160 ≤ 250	500	750	900	14	55	35	220-269
> 250	On request						

APPROXIMATE EQUIVALENT STANDARDS

EN	DIN	Nº STAND	UNE	STAS	AFNOR	BS	UNI	AISI/SAE	GOST
42CrM04	42CrM04	1.7225	F152	42MoCr11q	42CD4	708M40	42CrMo4	4140	42xM 38XM

COLOUR CODE

