



STEEL

20MnV6: similar to 18MnV5: STE 460

Micro-bound steel at normalized vanadium
With higher yielding and better weldability
and machinability characteristics

UNI C-45: similar to DIN CK45: SAE 1045

Normalised carbon steel also for induction
Hardening

UNI C-45 similar to DIN CF53: SAE 1050

Normalised carbon steel especially suitable
For induction hardening

42CRMO4: similar to DIN 42CRMO4V: SAE 4140

Medium-alloy reclaimed steel used for parts
Mechanically stressed and available also for
Hardening induction

DIMENSIONAL RANGE

From a diameter of 8mm to diameter of 500mm

BAR LENGTH

Up to 12000mm

CONDITION OF MATERIAL

Natural, hardened, reclaimed,
reclaimed and hardened

TOLERANCES

ISO F7: ISO h7: ISO h6

THICKNESS OF THE CHROME

Standard series: 25± 5 micron

Heavy series: 50± 5 micron

SURFACE FINISHING

Ra max 0.20 Micron: Rt max 3.00 Micron

HARD-SURFACE OF THE CHROME

Hv 0.1/Hv 800-1000

OVALITY

Within 1/2 of the field f7

CONCENTRICITY

All kinds ± 2 micron

STRAIGHTNESS

Better than 0.5/2000 Mm

ENDURANCE TO THE CORROSION

Test according to nss iso 3768 e ass iso 3769
Evaluation of the result in conformity
with iso 4540

Standard type duration 96 h medium retng 9
Special type duration 200 h medium retng 9
Superior type duration 500 h medium retng 9

PACKAGE

Each bar is individually protected by
a plastic sheath

TESTING

Visual, dimensional, mechanical tests chemical

ANALYSIS

Certification according to DIN 50049/3.1.B DIN
50049/2.1/2.2

Chemical analysis

ACCIAIO	C %	Mn %	Si %	Cr %	Mo %	V %	S % (max)	P % (max)
20 Mn V6	0,20	1,50	0,30	-	-	0,10	0,25	0,025
UNI C45	0,45	0,70	-	-	-	-	0,030	0,030
UNI C50	0,50	0,70	-	-	-	-	0,025	0,025
42 CRM04	0,42	0,70	0,25	1,00	0,20	-	0,025	0,025

Mechanical characteristics

ACCIAIO	ø mm	Snervamento S 0.2 N/mm ²	Rottura Rm N/mm ²	Allungamento % a 5	Resistenza		Saldabilità
20 Mn V6	8 - 20	> 510	> 16	> 16	60	27	eccellente
	> 20 - 80	> 440	550 - 700	> 19	60	27	eccellente
	> 80 - 120	> 440	550 - 700	> 19	40	27	eccellente
	> 120 - 200	> 380	550 - 700	> 16	40	20	eccellente
UNI C45	20 - 10	> 340	580 - 800	> 17	-	-	buona
	> 100 - 200	> 320	520 - 680	> 15	-	-	buona
UNI C50	12 - 16	> 385	660 - 810	> 15	-	-	buona
	> 16 - 100	> 340	610 - 760	> 16	-	-	buona
42CRM04	12 - 120	> 735	900 - 1150	> 14	Kcu > 24 jolie		buona
	> 120 - 200	> 680	900 - 1150	> 14	Kcu > 24 jolie		buona