

RODACCIAI REFERENCES AND COMPARABLE STANDARDS

EUROPE		ITALY	GERMANY		FRANCE	UK	USA
EN 10088-3: 2005		(UNI 6900: 71)	(DIN 1654-5: 89)		(NFA 35-574-90)	(BS 3111 pt.2-79)	AISI
Grade	N°		Werkstoff	N°			
-	-	-	-	-	-	-	-

CHEMICAL COMPOSITION (CAST ANALYSIS) (%)

	C	Mn	Si	S*	P	Cr	Ni	Cu	N
min	-	5,00	-	-	-	16,00	3,00	1,00	0,15
max	0,10	9,00	1,00	0,015	0,045	19,00	6,00	4,00	0,20

* for bars S=0,015 - 0,030

MECHANICAL PROPERTIES - Cold drawn wire and coils (2H) *

Tensile strength levels	+C 600	+C 700	+C 800	+C900	+C 1000	+C 1100
Rm (MPa)	600÷800	700÷900	800÷1000	900÷1100	1000÷1250	1100÷1350

*for reference only

Note: the desired tensile strength level shall be evaluated depending on diameter required

MECHANICAL PROPERTIES - Cold drawn wire and coils in the solution annealed condition (2D) *

Size	$0,50 \leq d \leq 1,00$	$1,00 \leq d \leq 3,00$	$3,00 \leq d \leq 5,00$	$5,00 \leq d \leq 16,00$
Rm (MPa) max	950	900	850	800
A (%) max	30	30	35	35

*for reference only

Note: If skin passed, Rm might be increased by up to 50 MPa

MECHANICAL PROPERTIES - Bars, wire and coils for cold heading *

Size mm	As Treated (+AT) or Peeled (+AT+PE)		Cold Drawn (+AT +C)		Cold Drawn + Solution annealed (+AT +C +AT)		Cold Drawn + Solution annealed + Skin passed (+AT +C +AT +LC)	
	Rm (MPa) max	Z (%) min	Rm (MPa) max	Z (%) min	Rm (MPa) max	Z (%) min	Rm (MPa) max	Z (%) min
$\geq 2 \leq 5$	-	-	-	-	600	68	650	63
$> 5 \leq 10$	590	68	740	-	590	68	640	63
$> 10 \leq 25$	590	68	740	-	590	68	-	-
$> 25 \leq 50$	590	68	-	-	-	-	-	-

* For reference only

WORKING TEMPERATURES RECOMMENDED

Operation	Hot forgings deformation	Solution annealing (water, air)
°C	900÷1200	1000÷1100

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STAINLESS STEELS
AUSTENITIC

RODINOX® for coils
RODINOX® plus for bars

