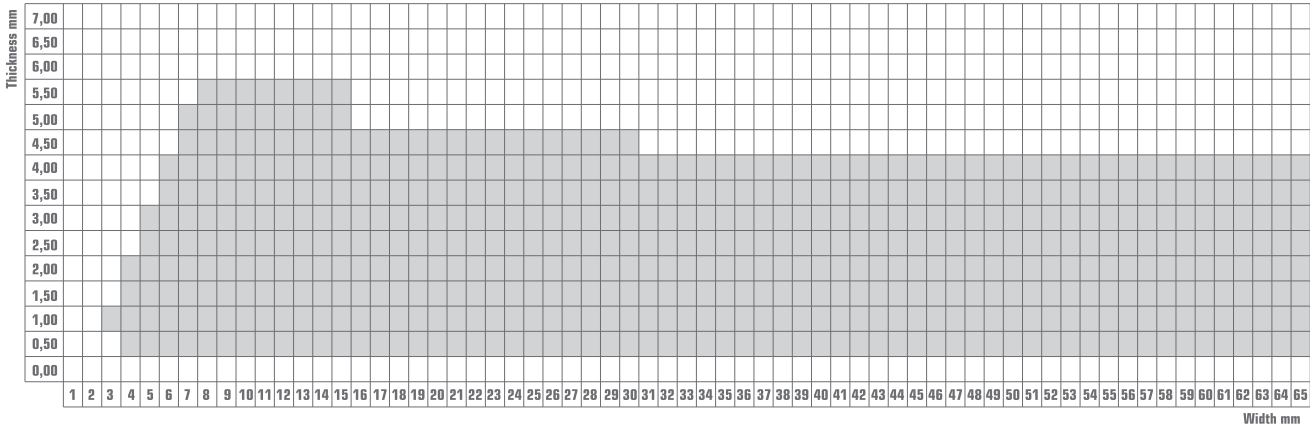


INOX STRIPES

E.N. 10088 - 3 n.	PPI-ITC nome	SIGLA	INDICATIVE CHEMICAL ANALYSIS					PRODUCTION PROGRAM	
			C	Cr	Ni	Mo	Altro	Standard	Request
1.4006	410	X12Cr13	0,08-0,15	11,50-13,50	-	-	Ni <0,75	-	PPI
1.4016	430	X6Cr17	<0,08	16,00-18,00	-	-	-	PPI	-
1.4016	430st	X6Cr17	<0,03	16,00-18,00	-	-	-	PPI	-
1.4021	420A	X20Cr13	0,16-0,25	12,00-14,00	-	-	-	-	PPI
1.4028	420B	X30Cr13	0,26-0,35	12,00-14,00	-	-	-	-	PPI
1.4034	420C	X46Cr13	0,43-0,50	12,50-14,50	-	-	-	-	PPI
1.4301	304	X5CrNi18-10	<0,07	17,00-19,50	8,00-10,50	-	N <0,11	PPI	-
1.4303	305	X4CrNi18-12	<0,06	17,00-19,00	11,00-13,00	-	N <0,11	PPI	-
1.4306	304st	X2CrNi19-11	<0,03	18,00-20,00	10,00-12,00	-	N <0,11	-	PPI
1.4307	304L	X2CrNi18-9	<0,03	17,50-19,50	8,00-10,00	-	N <0,11	PPI	-
1.4310	302	X10CrNi18-8	0,05-0,15	16,00-19,00	6,00-9,50	<0,80	N <0,11	-	PPI
1.4401	316	X5CrNiMo17-12-2	<0,07	16,50-18,50	10,00-13,00	2,00-2,50	N <0,11	PPI	-
1.4404	316L	X2CrNiMo17-12-2	<0,03	16,50-18,50	10,00-13,00	2,00-2,50	N <0,11	PPI	-
1.4410	2507	X2CrNiMoN25-7-4	<0,03	24,00-26,00	6,00-8,00	3,00-4,50	N 0,20-0,35	-	PPI
1.4462	2205	X2CrNiMoN22-5-3	<0,03	21,00-23,00	4,50-6,50	2,00-3,50	N 0,10-0,22	-	PPI
1.4541	321	X6CrNiTi18-10	<0,08	17,00-19,00	9,00-12,00	-	Ti 5xC <0,70	PPI	-
1.4571	316Ti	X6CrNiMoTi17-12-2	<0,08	16,50-18,50	10,50-13,50	2,00-2,50	Ti 5xC <0,70	PPI	-
1.4876	800	X10NiCrAlTi32-21	<0,12	19,00-23,00	30,00-34,00	-	Ti 0,15-0,6 AL 0,15-0,60	-	PPI
2.4816	600	NiCr15Fe	0,05-0,10	14,00-17,00	>=72,00	-	B <=0,06 Fe6,00-10,00	-	PPI
2.4851	601	NiCr23Fe	0,03-0,10	21,00-25,00	58,00-63,00	-	AL 1,00-1,70 Fe <18,00	-	PPI
2.4856	625	NiCr22Mo9Nb	0,03-0,10	20,00-23,00	>=58,00	8,00-10,00	Nb 3,15-4,15 Fe <5,00	-	PPI
2.4858	825	NiCr21Mo	<0,025	19,50-23,50	38,00-46,00	2,50-3,50	Ti 0,60-1,20 Cu 1,50-3,00	-	PPI

Production Program "Thicknesses/Widths"



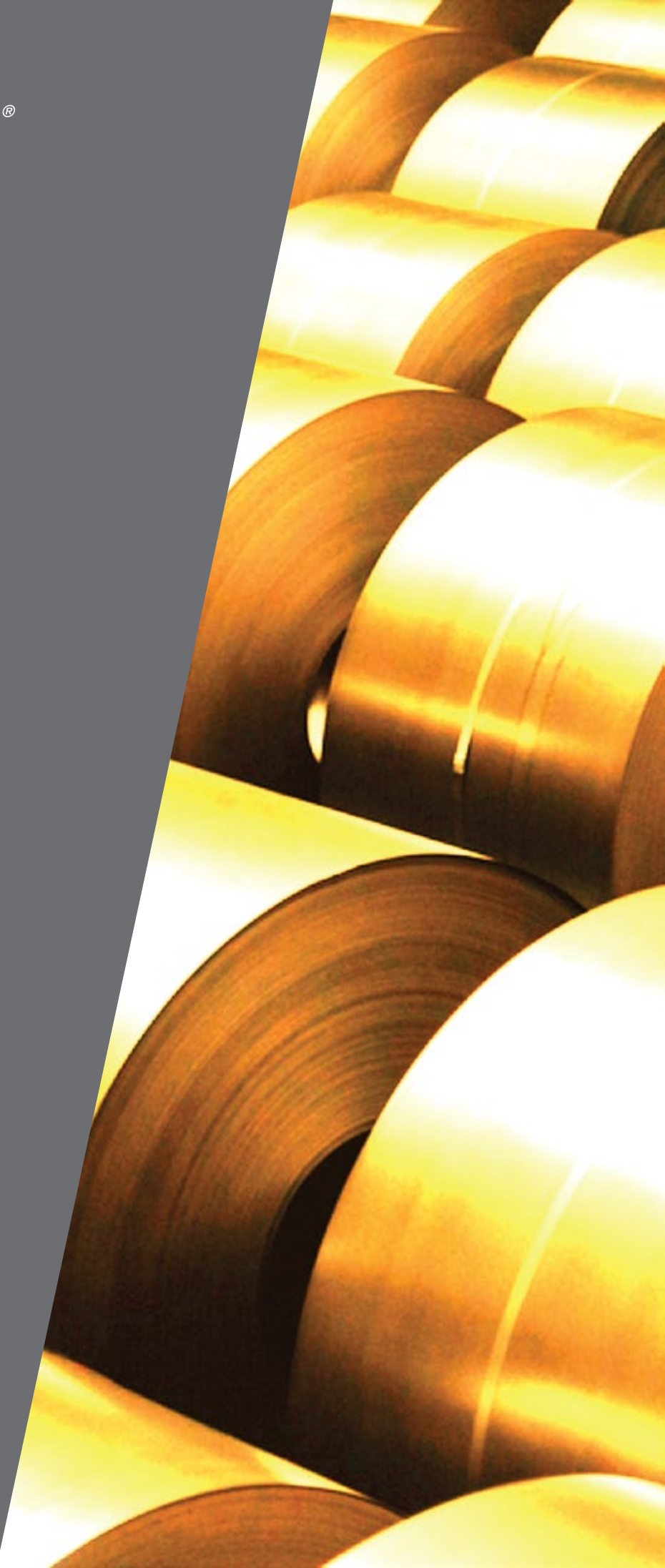
Rolled Tapes/Squares/Stripes
Thicknesses: 0,4 a 6 mm - Widths: 5 a 1.000mm - Stripes: 100 a 1.000mm - Squares: 200x200 a 1.000x1.000mm - Surface Finishes 2B, BA, frosted, 1C



Rolled Tapes
Copper - Brass
Bronze - Inox

TeknoSteel srl
Via Sisinnio, 41 - 00178 Roma
Tel. 06. 959.45.021 - Fax 06.565.61.697
info@teknosteelsrl.com - www.teknosteelsrl.com
RIVA/C.F. 11611351005

Your production
chain starts here.



BRASS STRIPES

CuZn37(CW508L) CuZn36 (CW507L)	Physical State	R300	R350	R410	R480	R550
Rm	(N/mm²)	300 - 370	350 - 400	410 - 490	480 - 560	>550
Rp0,2	(N/mm²)	<180	>170	>300	>430	>500
A50mm	(%)	38	19	8	3	-
	Physical State	H055	H095	H120	H150	H170
Hardness	HV	55 - 95	95 - 125	120 - 155	150 - 180	>170
	Physical State	G010	G020	G030	G050	
Grain Dimension		<0,015	0,015 - 0,030	0,020 - 0,040	0,035 - 0,070	
Hardness	HV	<120	<95	<90	<80	

CuZn33(CW506L)	Physical State	R280	R350	R420	R500
Rm	(N/mm²)	280 - 380	350 - 430	420 - 500	500
Rp0,2	(N/mm²)	<170	>170	>300	>450
A50mm	(%)	40	23	6	
	Physical State	H055	H095	H125	H155
Hardness	HV	55 - 90	95 - 125	125 - 155	>155
	Physical State	G010	G020	G030	G050
Grain Dimension		<0,015	0,015 - 0,030	0,020 - 0,040	0,035 - 0,070
Hardness	HV	<120	<95	<90	<80

CuZn30(CW505L)	Physical State	R270	R350	R410	R480	
Rm	(N/mm²)	270 - 350	350 - 430	410 - 490	>480	
Rp0,2	(N/mm²)	<160	>170	>260	>430	
A50mm	(%)	40	21	9	-	
	Physical State	H055	H095	H120	H150	
Hardness	HV	55 - 90	95 - 125	120 - 155	>150	
	Physical State	G010	G020	G030	G050	G075
Grain Dimension		<0,015	0,015 - 0,030	0,020 - 0,040	0,035 - 0,070	0,050 - 0,100
Hardness	HV	<120	<95	<90	<80	<70

CuZn20(CW503L)	Physical State	R270	R320	R400	R480
Rm	(N/mm²)	270 - 320	320 - 400	400 - 480	>480
Rp0,2	(N/mm²)	<150	>200	>320	>420
A50mm	(%)	38	20	5	
	Physical State	H055	H085	H120	H155
Hardness	HV	55 - 85	85 - 120	120 - 155	>155
	Physical State	G010	G020	G035	
Grain Dimension		<0,015	0,015 - 0,030	0,025 - 0,050	
Hardness	HV	<105	<85	<75	

CuZn15(CW502L)	Physical State	R260	R300	R350	R410
Rm	(N/mm²)	260 - 310	300 - 370	350 - 420	>410
Rp0,2	(N/mm²)	<170	>150	>250	>360
A50mm	(%)	36	16	4	-
	Physical State	H055	H085	H105	H125
Hardness	HV	55 - 85	85 - 115	105 - 135	>120
	Physical State	G010	G020	G035	
Grain Dimension		<0,015	0,015 - 0,030	0,025 - 0,050	
Hardness	HV	<105	<85	<75	

BRASS STRIPES

CuZn10 (CW501L)	Physical State	R240	R280	R350
Rm	(N/mm²)	240 - 290	280 - 360	>350
Rp0,2	(N/mm²)	<140	>200	>290
A50mm	(%)	36	13	4
	Physical State	H050	H080	H110
Hardness	HV	50 - 80	80 - 110	>110

CuZn5 (CW500L)	Physical State	R230	R270	R340
Rm	(N/mm²)	230 - 280	270 - 350	>340
Rp0,2	(N/mm²)	<130	>200	>280
A50mm	(%)	36	12	4
	Physical State	H045	H075	H110
Hardness	HV	45 - 75	75 - 110	>110

PHYSICAL FEATURES							CHEMICAL COMPOSITIONS			
Material	Density g/cm³	Electrical Cond. Ms/m %IACS	Conductivity Thermal W/mk	Coeff. Thermal Expansion 10⁻⁶/k	Elasticity Module kN/mm²		Cu %	Zn %	Sn %	
CuZn37	8,4	15,5	28	123	20,8	105		62 - 64	Rem	<0,1
CuZn36	8,4	15,5	27	116	20,3	105		63,5 - 65,5	Rem	<0,1
CuZn33	8,5	15,5	27	116	20,3	105		66 - 68	Rem	<0,1
CuZn30	8,5	16,3	28	120	19,9	110		69 - 71	Rem	<0,1
CuZn20	8,7	19,0	32	140	19,1	110		79 - 81	Rem	<0,1
CuZn35	8,8	21,1	37	159	18,7	115		84 - 86	Rem	<0,1
CuZn10	8,8	24,7	40	173	18,6	115		89 - 91	Rem	<0,1
CuZn5	8,9	33,3	40	173	18,6	115		94 - 96	Rem	<0,1

SUPPLY SPECIFICATIONS

Characteristics	Rolls in rolls	Ribbons
Width (mm)	4 - 320	4 - 50
Thickness (mm)	0,10 - 3,00	0,15 - 2,00
Weight (Kg)	4000 13 kg/mm Largh. Nastro	<1500
Ø indoor (mm)	140 - 300 - 400 - 500	127 - 300 - 400
Ø outdoor (mm)	<1480	1000



COPPER STRIPES

Cu-ETP(CW004A) Cu-PHC(CW020A) Cu-DHP(CW024A)	Physical State	R220	R240	R290	R360
Rm	(N/mm²)	220 - 260	240 - 300	290 - 360	>360
Rp0,2	(N/mm²)	<140	>180	>250	>320
A50mm	(%)	33	8	4	2
	Physical State	H040	H065	H090	H110
Hardness	HV	40 - 65	65 - 95	90 - 110	>110

CuZn0,5(CW119C)	Physical State	R220	R240	R290	R360
Rm	(N/mm²)	220 - 260	240 - 300	290 - 360	>360
Rp0,2	(N/mm²)	<140	>180	>250	>320
A50mm	(%)	33	8	-	-
	Physical State	H040	H065	H085	H110
Hardness	HV	40 - 65	65 - 95	85 - 115	>110

PHYSICAL FEATURES					
Material	Density g/cm³	Electric Conductivity Ms/m %IACS	Thermal Conductivity W/mk	Thermal Expansion Coefficient 10 ⁻⁶/k	Elasticity Module kN/mm²
Cu-ETP	8,9	>55	101	391	115
Cu-PHC	8,9	>55	99	386	115
Cu-DHP	8,8	>46	92	350	115
Cu-Zn0,5	8,8	48	-	-	-

BRONZE STRIPES

CuSn4 (CW450K)	Physical State	R290	R390	R480	R540	R610
Rm	(N/mm²)	290 - 390	390 - 490	480 - 570	540 - 630	>610
Rp0,2	(N/mm²)	<190	>210	>420	>490	>540
A50mm	(%)	40	11	4	3	-
	Physical State	H070	H115	H150	H170	H190
Hardness	HV	70 - 100	115 - 155	150 - 180	170 - 200	>190

CuSn5 (CW451K)	Physical State	R310	R400	R490	R550	R630	R690
Rm	(N/mm²)	310 - 390	400 - 500	490 - 580	550 - 640	630 - 720	>690
Rp0,2	(N/mm²)	<250	>240	>430	>510	>600	>670
A50mm	(%)	45	14	8	4	2	-
	Physical State	H075	H120	H160	H180	H200	H220
Hardness	HV	75 - 105	120 - 160	160 - 190	180 - 210	200 - 230	>220

CuSn6 (CW452K)	Physical State	R350	R420	R500	R560	R640	R720
Rm	(N/mm²)	350 - 420	420 - 520	500 - 590	560 - 650	640 - 730	>720
Rp0,2	(N/mm²)	<300	>260	>450	>500	>600	>690
A50mm	(%)	45	17	8	5	3	-
	Physical State	H080	H125	H160	H180	H200	H220
Hardness	HV	80 - 110	125 - 165	160 - 190	180 - 210	200 - 230	>200

CuSn8 (CW453K)	Physical State	R370	R470	R540	R600	R660	R740
Rm	(N/mm²)	370 - 450	450 - 550	540 - 630	600 - 690	660 - 750	>740
Rp0,2	(N/mm²)	<300	>280	>460	>530	>620	>700
A50mm	(%)	50	20	13	5	3	2
	Physical State	H090	H135	H170	H190	H210	H230
Hardness	HV	90 - 120	135 - 175	170 - 200	190 - 220	210 - 240	>230

PHYSICAL FEATURES						CHEMICAL COMPOSITIONS				
Material	Density g/cm³	Electric Cond. Ms/m %IACS	Thermal Cond. W/mk	Thermal Exp. Coeff. 10⁻⁶/k	Elasticity Module kN/mm²	Cu %	Zn %	Sn %	P%	
CuSn4	8,9	11,0	20	84	17,8	110	Rem	>0,2	3,5 - 4,5	0,01 - 0,40
CuSn5	8,9	10,0	20	82	17,8	110	Rem	>0,2	4,5 - 5,5	0,01 - 0,40
CuSn6	8,8	9,0	20	84	17,8	110	Rem	>0,2	5,5 - 7,0	0,01 - 0,40
CuSn8	8,8	7,0	13	62	18,2	110	Rem	>0,2	7,5 - 8,5	0,01 - 0,40

