



TECHNICAL DATASHEET OF ALUMINIUM COILS, STRIPS & SHEETS ALLOYS 1050A, 1070

MANUFACTURING TECHNOLOGY:

Aluminium cold-rolled strips are produced on a quarto, non-reversing, single stand mill. The stock for cold rolling is a continuous-cast and hot-rolled strip. The Tension Leveling Line and the Slitting Line allow for further processing of the cold-rolled strip. We produce the following types of cold-rolled strip surface:

- Not degreased (after rolling)
- Degreased without chemical
- Stucco ("orange peel" surface)

PRODUCT:

Coil – TW

Strip – TC

Sheet - TA

TECHNICAL DATA:

PARAMETER	PRODUCT	RANGE [mm]
Thickness	TW / TC / TA	0,2 – 3 > 3 – 4 without washing and straightening
Width	TW / TC TA	10 – 2000 500 – 2000
Lenght	TA	to be agreed
ID / OD	TW / TC	for thickness: 0 - 1,6 : 150, 305, 406, 508 for thickness: 1,6 – 4 : 406, 508

Tolerance according to EN 485-4



CHEMICAL COMPOSITION:

Alloy	Si max [%]	Fe max [%]	Cu max [%]	Mn max [%]	Mg max [%]	Cr max [%]	Zn max [%]	Ti max [%]	Others max [%]	Total Others max [%]	Al. min [%]
1050A	0,25	0,40	0,05	0,05	0,05	-	0,07	0,05	0,03	-	99,50
1070	0,20	0,25	0,03	0,03	0,03	-	0,07	0,03	0,03	-	99,70

According to EN 573-3

ELECTRIC CONDUCTIVITY

Parameter	Alloy	
	1050A	1070
ELECTRIC CONDUCTIVITY [MS/m]	-	> 35,5



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MECHANICAL PROPERTIES:

ALLOY 1050A / 1070													
Temp er	Thicknes [mm]	Tensile strenght Rm [MPa]		Yield strength Rp0,2 [MPa]		Elongation A50 [%]	Temp er	Thicknes [mm]	Tensile strenght Rm [MPa]		Yield strength Rp0,2 [MPa]		Elongation A50 [%]
		min	max	min	max	min			min	max	min	max	min
O	0,2 – 0,5	65	95	20		2	H19	0,2 – 0,5	155		140		1
	0,5 – 1,5	65	95	20		4		0,5 – 1,5	150		130		1
	1,5 – 3,0	65	95	20		5		1,5 – 3,0	150		130		1
	3,0 – 4,0	65	95	20		7							
H111	0,2 – 0,5	65	95	20		2	H22	0,2 – 0,5	85	125	55		4
	0,5 – 1,5	65	95	20		2		0,5 – 1,5	85	125	55		5
	1,5 – 3,0	65	95	20		4		1,5 – 3,0	85	125	55		6
	3,0 – 4,0	65	95	20		5		3,0 – 4,0	85	125	55		11
H12	0,2 – 0,5	85	125	65		2	H24	0,2 – 0,5	105	145	75		3
	0,5 – 1,5	85	125	65		4		0,5 – 1,5	105	145	75		4
	1,5 – 3,0	85	125	65		5		1,5 – 3,0	105	145	75		5
	3,0 – 4,0	85	125	65		7		3,0 – 4,0	105	145	75		8
H14	0,2 – 0,5	105	145	85		2	H26	0,2 – 0,5	120	160	90		2
	0,5 – 1,5	105	145	85		2		0,5 – 1,5	120	160	90		3
	1,5 – 3,0	105	145	85		4		1,5 – 3,0	120	160	90		4
	3,0 – 4,0	105	145	85		5							
H16	0,2 – 0,5	120	160	100		1	H26	0,2 – 0,5	120	160	90		2
	0,5 – 1,5	120	160	100		2		0,5 – 1,5	120	160	90		3
	1,5 – 3,0	120	160	100		3		1,5 – 3,0	120	160	90		4
H18	0,2 – 0,5	135		120		1	H28	0,2 – 0,5	140		110		2
	0,5 – 1,5	140		120		2		0,5 – 1,5	140		110		2
	1,5 – 3,0	140		120		2		1,5 – 3,0	140		110		3

According to EN 485-2

TRANSPORT AND STORAGE CONDITIONS OF ALUMINUM STRIPS AND SHEETS BY CUSTOMER:

Strips (sheets) should be transported in covered, dry and clean means of transport preserving current regulations, protecting it from mechanical damage, humidity and harmful environmental factors.

Strips (sheets) should be stored in covered, dry and clean rooms, protecting them from humidity and the action of active chemicals.

The storage temperature room should be stable. Changes of the temperature in stock cause that air moisture is condensed on the strip surface, in consequence of capillary activity action between the coils, penetrates inside and inducing corrosion. In the case of temperature changes, the packaging of the material should be opened.