

Signi Aluminium Cladding sheet and strips

Specification and Data Sheet

信义铝业产品规格和技术表格

Dimensions 产品规格		
	Strips 铝带	Sheets 铝板
Thickness 厚度	0.051mm--3.0mm	0.4mm--6.35mm
Width 宽度	6mm--1600mm	500--1600mm
Length 长度		Max. 10000mm
Edge quality 边部处理	Trimmed 裁边	Trimmed and slit; sawn 分切, 剪板
Inside diameter 内径	305mm, 405mm, 505mm Paper core, Aluminium core, without core. 铝芯, 纸芯, 无芯	
Outside diameter 外径	Max. 1600mm without connect point 最大外径 1600mm,无接头	

Cladding 覆合比率	
Cladding 覆合率	One side; Both sides 单面覆合, 双面覆合
Cladding rate 覆合率	5%, 7.5%, 10%, 13%, 15% (other clad percentages available upon request)其他覆合比率也可根据客户要求定做。
Cladding tolerance 覆合公差	Cladding thickness of 1.5%--<4%: +/-0.6 覆合区间在 1.5%--<4%: +/-0.6 Cladding thickness of 4.0--6.0%: +/-1.0 覆合区间在 4.0--6.0%: +/-1.0 Cladding thickness of 6.0--<=12.0%: +/-1.5 覆合区间在 6.0--<=12.0%: +/-1.5 Cladding thickness of 12.0--20.0%: +/-2.0 覆合区间在 12.0--20.0%: +/-2.0

Surface 铝板带表面要求	
Quality 质量	Mill finish; for thickness 0.3--3.5mm, chemically degreased 光面; 厚度在 0.3--3.5mm 之间, 化学去油
Marking 标记	Ink marking 喷墨

1> Tolerance according to EN and ASTM. 厚度公差复合欧标和美国标准。

2> Higher thickness on request. 更厚的材料可以定制。

3> Special dimensions, tolerances, and alloys on request. 特殊规格, 公差, 合金可以定制。

Signi Aluminium Chemical composition

信义铝业化学成分

SIGNI ALUMINIUM CLAD ALLOYS 信义铝业钎焊材料合金表格										Others	
Alloy 合金		Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	each	total
Clad alloys for VCA-brazing according to EN573-3 真空焊接材料											
4004	Min.	9.0	-	-	-	1.0	-	-	-	-	-
	max.	10.5	0.8	0.25	0.10	2.0	-	0.20	-	0.05	0.15
4104(Containing 0.02%-0.20% Bi)	Min.	9.0	-	-	-	1.0	-	-	-	-	-
	max.	10.5	0.8	0.25	0.10	2.0	-	0.20	-	0.05	0.15
Clay alloys for CAB-brazing according to EN573-3 保护气焊接材料											
4343	Min.	6.8	-	-	-	-	-	-	-	-	-
	max.	8.2	0.8	0.25	0.10	-	-	0.20	-	0.05	0.15
4045	Min.	9.0	-	-	-	-	-	-	-	-	-
	max.	11.0	0.8	0.30	0.05	0.05	-	0.10	0.20	0.05	0.15
4047A	Min.	11.0	-	-	-	-	-	-	-	-	-
	max.	13.0	0.6	0.30	0.15	0.10	-	0.20	0.15	0.05	0.15
Zn-containing clad alloys for CAB-brazing 含 Zn 合金的保护气焊接材料											
4343.ZN	Min.	6.8	-	-	-	-	-	0.8	-	-	-
	max.	8.2	0.8	0.25	0.10	-	-	1.2	-	0.05	0.15
4045.ZN	Min.	9.0	-	-	-	-	-	0.8	-	-	-
	max.	11.0	0.8	0.30	0.05	0.05	-	1.2	0.20	0.05	0.15
Clad alloys for corrosion protection according to EN573-3 覆合材料											
1050A	Min.	-	-	-	-	-	-	-	-	-	-
	max.	0.25	0.40	0.05	0.05	0.05	-	0.07	0.05	0.03	-
7072	Min.	-		-	-	-	-	0.8	-	-	-
	Max.	0.7(Si+Fe)		0.10	0.10	0.10	-	1.3	-	0.05	0.15
All data in Wt.-%; Customer specific alloy composition on request.											
3xxx alloys according to EN573-3 and ASTM 3xxx 合金材料											
3003	Min.	-	-	0.05	1.0	-	-	-	-	-	-
	max.	0.6	0.7	0.25	1.5	-	-	0.10	-	0.05	0.15
3004	Min.	-	-	-	1.0	0.8	-	=	-	-	-
	max.	0.30	0.70	0.25	1.5	1.3	-	0.25	-	0.05	0.15
3005	Min.	-	-	-	1.0	0.20	-	-	-	-	-
	max.	0.6	0.70	0.30	1.5	0.6	0.10	0.25	0.10	0.05	0.15
3103(Containing max.0.10%(Zr+Ti))	Min.	-	-	-	0.9	-	-	-	-	-	-
	Max.	0.50	0.70	0.10	1.5	0.30	0.10	0.20	-	0.05	0.15

3105	Min.	-	-	-	0.30	0.20	-	-	-	-	-
	Max.	0.6	0.7	0.30	0.80	0.80	0.20	0.40	0.10	0.05	0.15
5xxx-non-heat-treatable alloys according to EN573-3 and ASTM 5xxx 合金材料											
5049	Min.	-	-	-	0.50	1.60	-	-	-	-	-
	max.	0.40	0.50	0.10	1.10	2.50	0.30	0.20	0.10	0.05	0.15
5052	Min.	-	-	-	-	2.2	0.15	-	-	-	-
	max.	0.25	0.40	0.10	0.10	2.8	0.35	0.10	-	0.05	0.15
5083	Min.	-	-	-	0.40	4.0	0.05	-	-	-	-
	max.	0.40	0.40	0.10	1.0	4.9	0.25	0.25	0.15	0.05	0.15
6xxx-non-heat-treatable alloys according to EN573-3 and ASTM 6xxx 合金材料											
6063	Min.	0.20	-	-	-	0.45	-	-	-	-	-
	max.	0.60	0.35	0.10	0.10	0.90	0.10	0.10	-	0.05	0.15
6951	Min.	0.20	-	0.15	-	0.40	-	-	-	-	-
	max.	0.50	0.08	0.40	0.10	0.8	-	0.20	-	0.05	0.15
7xxx-non-heat-treatable alloys according to EN573-3 and ASTM 7xxx 合金材料											
7020	Min.	-	-	-	0.05	1.0	0.10	4.0	-	-	-
	max.	0.35	0.40	0.20	0.50	1.4	0.35	5.0	-	0.05	0.15
Containing 0.08%-0.25% (Zr+Ti) and 0.08%--0.20% Zr											



Signi Aluminium Physical Property Data of Strip Material

信义铝业钎焊铝带的物理性能表格

Alloy 合金	Temper 状态	Thickness (mm) 厚度	Tolerance (mm) 公差	Clad Ratio (%) 覆合 率	Tensile Strength (MPa) 抗拉强 度	Yield Strength (MPa) 屈服强 度	Elong ation (%) Min 延伸 率	Application 应用范围
3003	H14	0.08~0.12	±0.005	None	150~200	≥120	1	Evaporator fin and plate 蒸发器翅片和板
3003	H26	0.3~0.35	±0.015	None	190~220	≥160	8	Glass mounting bracket material 安装支架材料
3003	H14	0.06~0.1	±0.005	None	150~200	≥120	1	Radiator fin and plate 散热片和板
4343/3 003/43 43	H14	0.06~0.1	±0.005	8~12	150~200	≥120	1	
4343/3 003/43 43	H14	0.08~0.12	±0.005	8~12	150~200	≥120	1	Parallel condenser fin 平行冷凝器翅片
4343/3 003/43 43	H14	0.1~0.12	±0.005	8~12	150~120	≥120	1	Charge air cooler material 增压空气冷却器材料
4045/3 003/40 45	H14	0.1~0.12	±0.005	8~12	150~200	≥120	1	
1060	O	0.35~0.4	±0.02	None	55~95	≥15	25	Air cooling fin material for tubes 管用空冷翅片材料
1100	O	0.35~0.4	±0.02	None	75~105	≥25	25	
3003	O	0.2~0.3	±0.01	None	100~150	≥45	15	Aluminium for heating element 加热元件
3003	H16	0.5~0.7	±0.02	None	150~210	≥120	1	
4047	H18	0.05~0.1	±0.005	None	≥200	≥170	0.5	
4047	O	0.4~0.5	±0.02	None	80~140	≥35	12	Welding wire 焊丝
7072	H19	0.12~0.15	±0.005	None	145~172	≥15	0.5	Fin stock 翅片
4A13	H18	0.05~0.1	±0.005	None	≥190	≥16	0.5	Aluminium for heating element 加热元件
4104	H18	0.05~0.1	±0.005	None	≥220	≥190	0.5	
3003	O	0.2~0.3	±0.007	None	100~150	≥45	15	Oil cooler 油冷器

(inner fin)								
6951(inner fin)	O	0.2~0.3	±0.007	None	115~165	≥50	15	Engineering machinery 机械加工
3003(external fin)	H14	0.1~0.15	±0.005	None	150~200	≥120	1	
3003(inner fin)	O	0.2~0.3	±0.007	None	100~150	≥45	15	
3003(inner fin)	H12	0.2~0.3	±0.007	None	120~160	≥85	2	
3003(external fin)	H14	0.1~0.15	±0.005	None	150~200	≥120	1	

Physical Property Data of Plate Material

4343/3003	O	1.2~3.0	±0.03	5~10	100~150	≥45	25	Radiator fin and plate
4343/3003/7072	O	1.2~3.0	±0.03	5~10	100~150	≥45	25	
4343/3003/4343	O	0.4~0.5	±0.02	8~12	100~150	≥45	27	Evaporator fin and plate
4045/3003/4045	O	0.8~1.2	±0.03	8~12	100~150	≥45	27	
4045/3003/4045	O	2~3	±0.05	8~12	100~150	≥45	25	Charge air cooler material
4045/3003/4045	O	0.5~0.8	±0.02	15~20 10~15	100~150	≥45	25	Oil cooler
4104/3003/4104	O	0.5~0.8	±0.02	15~20 10~15	100~150	≥45	25	
4104/3003/4104	H14	0.6~0.8, 1.2~1.5	±0.02 ±0.03	13~17 8~12	150~200	≥120	3	Engineering Machinery
4004/3003/4004	H14	0.6~0.8, 1.2~1.5	±0.02 ±0.03	13~17 8~12	150~200	≥120	3	



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