

Technical requirements for hydrophilic aluminum foil

1. PRODUCT NAME: HYDROPHILIC PRE-COATED AL FIN STOCK

2、SPECIFICATIONS OF THE PRODUCTS:

3102 H26 0.105×612mm

3102 H26 0.105×584mm

3、APPLICATION RANGE

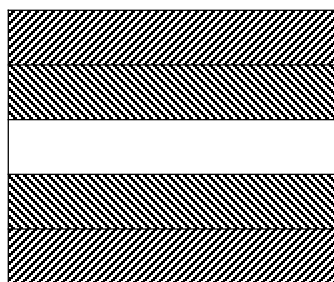
THIS TECHNICAL REQUIREMENT FOR HYDROPHILIC PRE-COATED AL FIN STOCK OF AIR CONDITIONERS.

4、COATING PERFORMANCE

4.1 Paint selection.

TO MEET THE REQUIREMENTS OF THE EU ROHS ORGANIC WATER SOLUBLE HYDROPHILIC COATING.

4.2 COATING STRUCTURE



←亲水层 (HYDROPHILIC LAYER): 0.2~0.3g/m²

←耐蚀层 (ANTI-CORROSIVE LAYER): 0.8~1.0 g/m²

←基 材 (BASE MATERTAL) 0.105mm

←耐蚀层 (ANTI-CORROSIVE LAYER): 0.8~1.0g/m²

←亲水层 (HYDROPHILIC LAYER): 0.2~0.3g/m²

4.3, COATING TYPES

(1)耐蚀层: 有机系树脂

CORROSIVE RESISTANCE film: ORANIC RESIN

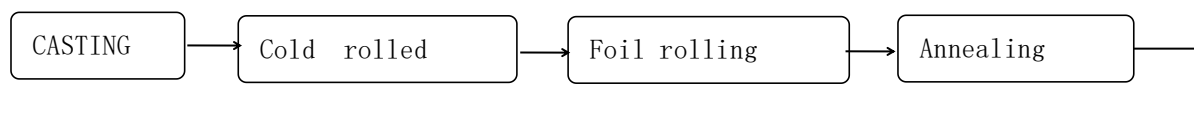
(2)亲水层: 有机系树脂

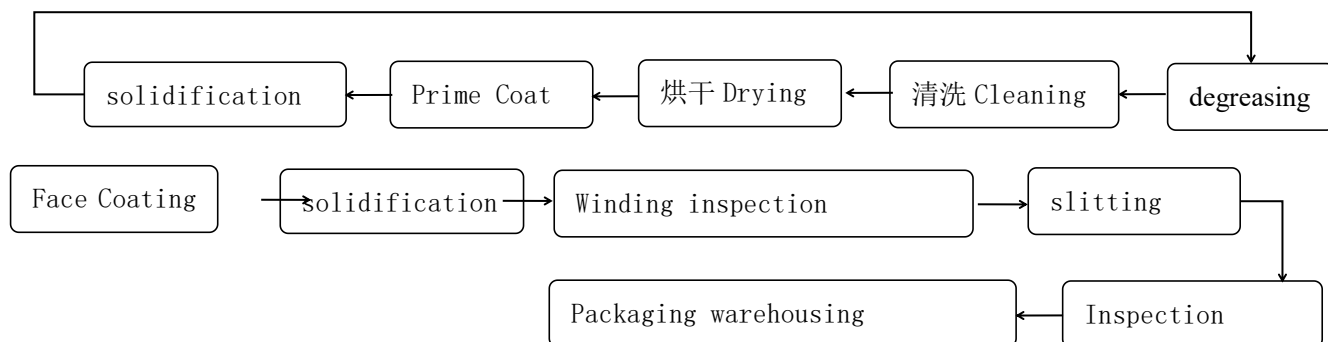
HYDROPHILIC FILM: ORANIC RESIN

5、Chemical composition: Should comply with the following table

ALLOY	COMPOSITION %									
	Si	Fe	Cu	Mn	Mg	Zn	Ti	OTHERS		Al
								SINGLE	TOTAL	
3102	≤0.4	≤0.7	≤0.10	0.05-0.40	-	≤0.10	≤0.10	≤0.05	≤0.15	REST

6、PRODUCTION CHART





7、亲水铝箔检查标准 Inspection standard for hydrophilic aluminum foil

序号	item	standard	Inspection methods		
		3102-H26	检查频次	检查工具	检查条件
1	抗拉强度 (Mpa) TENSILE	125-145	1 次/卷 1/COIL	电子拉力试验机 TENSION TESTER	样 件 SAMPLE
	延伸率 (%) ELONGATION (%)	$\geq 14\%$			
	杯突值 (mm) ENRICHES (mm)	≥ 4.0		杯突仪 ENRICHSES GAUGE	样 件 SAMPLE
2	初期亲水性 INITIAL HYDROPHILICITY	$\leq 5^\circ$	1 次/卷 1/COIL	5ul 计量器 5ul SYRINGE	样 件 SAMPLE
3	持续亲水性 CONTINUOUS HYDROPHILICITY	$\leq 26^\circ$	1 次/月 1/ MONTE	5ul 计量器 5ul SYRINGE	样 件 SAMPLE
4	附着力 ADHESION FORCE (划格试验 CROSS CUT)	无剥离 NO DELAMINATION	1 次/卷 1/COIL	封箱胶带 TAPE	样 件 SAMPLE
5	盐雾试验 SALT-SPRAY CORROSION TEST	500h\RN9.5 以上 500h\RN $\geq 9.5 \uparrow$	1 次/季度 1/ Quarter	盐雾试验箱 SALT-SPRAY	样 件 SAMPLE
6	耐碱性性试验 Alkaline resistance test	10%NaOH 溶液 25min 25 min 10% NaOH solution 表面无白点、起泡、脱落等现象 The surface has no white spot, blister, fall off and other phenomena	1 次/卷 1/COIL	目 测 VISUAL	样 件 SAMPLE
7	厚度偏差 (mm) TOLERANCE OF THICKNESS (mm)	厚度 ± 0.005	1 次/卷 1/COIL	数显千分尺 MICROMETER	样 件 SAMPLE
8	宽度偏差 (mm) TOLERANCE OF WIDTH (mm)	± 0.5	1 次/卷 1/COIL	钢 皮 尺 TAPE MEASURE	样 件 SAMPLE
9	卷芯内径 (mm) REEL PIPE (I. D) (mm)	$\phi 200 \pm 2.0$	1 次/卷 1/COIL	钢 皮 尺 TAPE MEASURE	样 件 SAMPLE
10	成品卷外径 (mm) PRODUCT (O. D) (mm)	$\phi 700 \sim 1000$	1 次/卷 1/COIL	钢 皮 尺 TAPE MEASURE	样 件 SAMPLE
11	表 面 及 外 观 SURFACE AND APPEARANCE	颜色均匀\无色差 NO COLOR DIFFERENCE	1 次/卷 1/COIL	目 测 VISUAL	样 件 SAMPLE
		无擦划伤 NO FISH TAILS			

8、表面质量要求 Surface quality requirement

8.1 亲水铝箔表面应洁净平整，不允许有皱折和碰伤；

The surface of hydrophilic aluminum foil should be clean and smooth, and no wrinkles and bumps are allowed

8.2 铝箔整卷长度应易于展开，展开时不应有粘连；

The whole length of aluminum foil should be easy to expand, and there should be no adhesion during expansion

8.3 铝箔卷端面应平齐、洁净，不得有氧化斑、脏污、碰伤，但允许有轻微毛刺；

The end face of the aluminum foil roll should be flat and clean, without oxidation spots, dirty goods and bruises, but slight burrs are allowed

8.4 每五卷允许有一个接头，接头处应有明显标记。

One joint per five rolls is allowed and the joint should be clearly marked

9、包装：按包装流程（或客户要求）执行

PACKAGING: Execute according to packaging process (or customer requirement).

10、贮藏条件：长期存放铝卷的库房应满足下列条件：

STORAGE CONDITIONS : WAREHOUSE FOR LONG-TIME STORGE SHOULD MEET THE REQUIREMENTS AS IT FOLLOWS:

(1)清洁、干燥，无腐蚀性气体。

CLEAN, DRY, NO CORROSIVE GAS.

(2)能防止雨、雪、水的侵入或浸入。

ABLE TO PREVENT RAIN, SNOW AND WATER FROM PERMEANCE.

(3)无其它化学活性物质或潮湿性物质。

NO OTHER CHEMICALACTIVE MATERIALS OR HUMID MATERIALS.

11、标识：每个包装件的包装单上应记录下列内容：

TAB: THE TAB OF EACH COIL SHOULD INCLUDE CONTENTS AS IT FOLLOWS:

(1)客户名称 CLIENT' S NAME

(2)产品名称 PRODUCT ITEM

(3)产品规格 PRODUCT SPECIFICATION

(4)合金状态 ALLOY & TEMRER

(5)净重 NET WEIGHT

(6)批号 LOT NO.

(7)生产日期 PRODUCTION DATE

(8)生产者 OPERATOR

11、检验报告书：检验报告书应记录下列内容：

INSPECTION REPORT: FOLLOWING CHTENTS SHOULD BE INDICATED IN INSPECTION REPORT:

(1)客户名称 CLIENT' S NAME

(2)合金状态 ALLOY & TEMRER

(3)规格 SPECIFICATION

(4)厚度宽度 THICKNESS & WIDTH

(5)化学成分 CHEMICAL COMPOSITION

(6)延伸率 ELONGATION

(8)涂层性能 COATING PROPERTY

(6)抗拉强度 TENSILE STRENGTH

(7)杯突值 ERICHSEN