

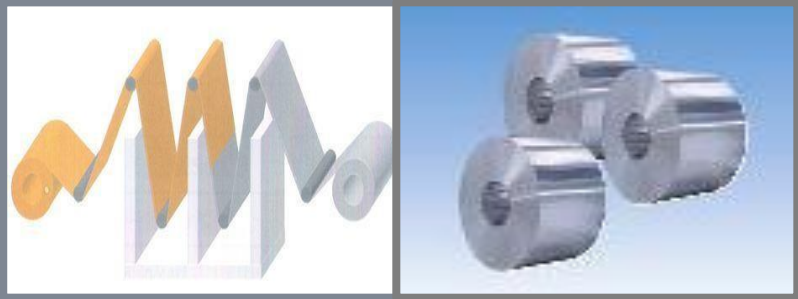


# **Lead Tab Material for Lithium Battery**

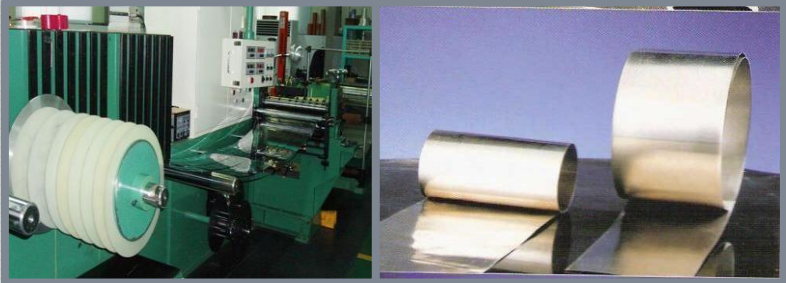
March, 2011

# Process / Application

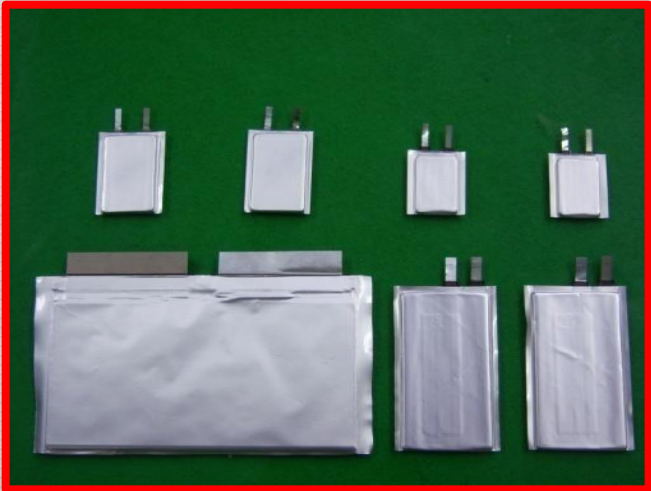
Al, Ni/Cu



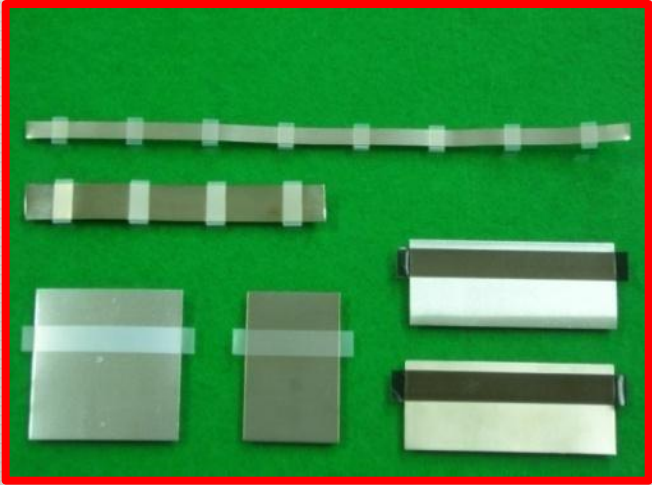
Rolling and plating



Slitting and Vacuum packing

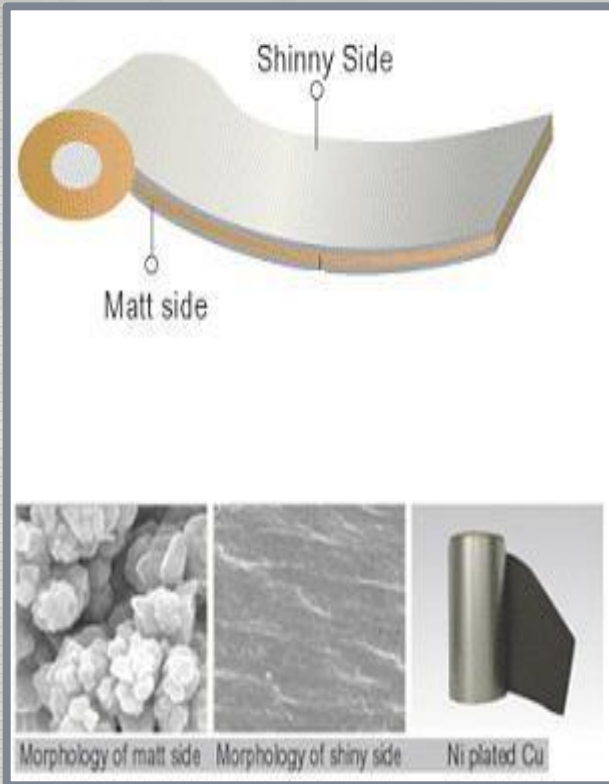


Battery Maker



Lead Tab Maker

# Item 1 : Plating Cu with Ni



Size	
Thickness	0.1mm, 0.15mm, 0.2mm,0.3mm,0.4mm
Width	4mm~100mm

- ◆ Copper(over 99.95%) : C1100-O
- ◆ Reel to Reel High-speed plating Line
- ◆ 2 or 4 side Plating
- ◆ Plating Thickness : 0.4~1.5 $\mu$ m
- ◆ Using Soft Metal(Bending : 180°,over 5times)
- ◆ Vacuum packing for preventing corrosion

# Grade : Plating Cu with Ni

Model Name	Item	Grade				Size(mm)		Sales unit	Packi- ng
		Edge Treatment	Surface Treatment	Ni plating	Ni Thickness ( $\mu\text{m}$ )	Thickness	Width		
DAK-1NC	NiCu1100	X	X	2side	0.6(+0.3,-0.2)	0.1,0.15,0.2,0.3,0.4	2~100	kg	roll
DAK-2NC	NiCu1100	O	X	2side	0.6(+0.3,-0.2)	0.2,0.3,0.4	7~100	kg	roll
DAK-3NC	NiCu1100	X	O	2side	0.6(+0.3,-0.2)	0.1,0.15,0.2,0.3,0.4	2~100	kg	roll
DAK-4NC	NiCu1100	O	O	2side	0.6(+0.3,-0.2)	0.2,0.3,0.4	7~100	kg	roll
DAK-5NC	NiCu1100	X	X	4side	1.3 $\pm$ 0.5	0.1,0.15,0.2,0.3,0.4	30~100	kg	roll
DAK-6NC	NiCu1100	O	X	4side	1.3 $\pm$ 0.5	0.2,0.3,0.4	30~100	kg	roll
DAK-7NC	NiCu1100	X	O	4side	1.3 $\pm$ 0.5	0.1,0.15,0.2,0.3,0.4	30~100	kg	roll
DAK-8NC	NiCu1100	O	O	4side	1.3 $\pm$ 0.5	0.2,0.3,0.4	30~100	kg	roll

## Item 2 : Aluminium



Size	
Thickness	0.1mm, 0.15mm, 0.2mm,0.3mm,0.4mm
Width	4mm~100mm

- ◆ Aluminium (over 99.5%) : A1050-O
- ◆ Using Soft Metal(Bending : 180° ,over 5times)
- ◆ Technical know-how for the slitting
- ◆ hi-technical rolling system
- ◆ Vacuum packing for preventing corrosion

# Grade : Aluminium

Model Name	Item	Grade		Size(mm)		Sales unit	Packing
		Edge Treatment	Surface Treatment	Thickness	Width		
DAK-1A	AL1050	X	X	0.1,0.15,0.2,0.3,0.4	2~100	kg	roll
DAK-2A	AL1050	O	X	0.2,0.3,0.4	7~100	kg	roll
DAK-3A	AL1050	X	O	0.1,0.15,0.2,0.3,0.4	2~100	meter	roll
DAK-4A	AL1050	O	O	0.2,0.3,0.4	7~100	meter	roll

# Inspection

## 1. Dimension



Thickness



Width

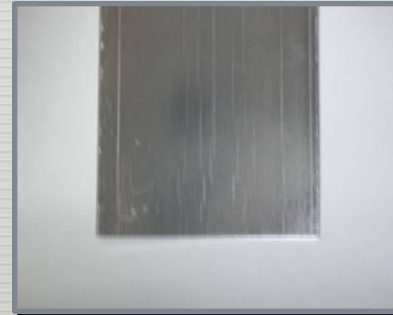
## 2. Visual Inspection



contamination



contamination



scratch

# Inspection

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## 3. Ni/Cu plating



Plating thickness by XRF



Plating adhesion test

## 4. Bending test

