

Technical specification

(For Customers)

Made by: Musen Group

Checked by : Annie Liu

Approved by: _____

SHENZHEN MUSEN INDUSTRY CO.,LTD

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MUSEN:
Shenzhen Musen Industry Co.,Ltd

Signature _____

Signature _____

Name:

Name: Annie Liu

Title:

Title: Sales Manager

Specification

1 Application

Aluminium foil supplied by MUSEN GROUP is suitable for food wraps , closure lids and insulations materials.(except for retort materials)

2 Alloy and temper

Alloy: A1235 /A8011

Temper: “O”(soft)

3 Chemical composition Wt (%)

Alloy	Si	Fe	Cu	Mn	Mg	Zn	V	Ti	others	Al
A1235	≤0.65		≤0.05	≤0.05	≤0.05	≤0.10	≤0.05	≤0.06	≤0.03	≥99.35
A8011	0.5-0.9	0.6-1.0	≤0.10	≤0.20	≤0.05	≤0.10	-	≤0.08	≤0.15	Remainder

4 Size and tolerance

4.1 size

Thickness (um)	width (mm)	length (mm)	Core ID (mm)
8mic-200um	As per requirements	As per requirements	76/152

4.2 Tolerance

thickness	Width	length	Steel core
±5%	±1mm	0~+1%	ID: -0.0 -- +1.0mm width: -0.0 -- +10.0mm

4.3 Core size and tolerance

Items	size	tolerance
Core ID	76mm/152MM	-0.0-- +1.0mm
Core width	foilwidth+10mm	-2 -- +0.0mm
Wall- thickness	2-5mm	±0.2mm

5 Appearance and surface

5.1 As per requirements (Bright Side Out / Dull Side Out)

5.2 Clean, no impurity, scratch, wrinkles, cracks, telescope, Slack and blocking etc.

5.3 Aluminium Foil shall not repel pure water within 3 seconds after applying in a transverse direction by cotton wool soaked in pure water.

5.4 Even foil end, overlapping: ≤ 1 mm.

6 Joints

OD/mm	Joint Number				Joint Spacing/m
	Thickness/mm				
	>0.0080-0.0120	>0.0120-0.0200	>0.0200-0.0400	>0.0400	
<200	0	0	0	0	/
$\geq 200-390$	1	1	0	0	/
>390-450	1	1	0	0	/
>450	2	2	1	0	≥ 2000

6.1 When the thickness is not more than 0.02 mm, over 2 joints per roll shall not be accepted, and if the thickness over 0.02mm, over 1 joins per roll shall not be accepted

6.2 Ultrasonic welded

6.3 Joints mark as per MS requirement.

7 Pinholes

Thickness(um)	Pinholes($\leq 1/m^2$)
8.0-12	≤ 50
12-18	≤ 30
>18	0

7.1 Pinhole diameter shall be less 0.25mm.

7.2 Pinholes shall exist on the average across 1 m²
 (Not come together in cluster).

7.3 Aluminium foil shall be applicable as material for package.

7.4 Pinhole control as per Musen pinhole standard (attachment A).

8 Physical specification

Alloy	Temper	Thickness (um)	Tensile Strength (N/m m ²)	Elongation %
1235	O	8-9	35-100	≥0.5
		10-24	40-100	≥1
		24-40	45-100	≥2
		41-80	45-100	≥4
8011	O	8-9	45-100	≥0.5
		10-24	50-105	≥1
		24-40	55-110	≥4
		41-80	60-110	≥8

9 Testing method

Thickness	Counting system and Weighing
Width	Steel Measure
Length	Length counters installed in separator slitters
Chemical component	As per GB/T3198-2010
Wettability	As per GB/T
Pinholes	As per GB/T
Density	Weighing

10 Packing

Seaworthy, Export Standard Wooden Package.

11.1 Outer Label:

Marks:			
Product:	Aluminium Foil	Alloy/ Temper:	
No. of Case :		Specification(mm):	
N.W. (KG):		G.W. (KG) :	
ID(mm)		Joint:	
PI NO.:		Packing Date:	

Box label should indicate:

Alloy, Temper, Customer PI , Coil/Case, Joints, ID/OD, Gross weight,
 Net weight, Packing date, Specification.

11.2 Coil Label:

ALUMINIUM FOIL	
ALLOY/ TEMPER	
LOT NO.	
SPECIFICATION	
NET WEIGHT	
Coil No.	

Coil label should indicate:

Alloy, Temper, Lot No., Coil No., Net weight, Specification.