

# 压力容器用铝合金产品

## ALUMINIUM ALLOY FOR PRESSURE VESSEL PRODUCT



YIXINDA INTERNATIONAL LIMITED

### 化学成分 Chemical Composition

(wt%)

合金 Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Zr	参考标准 Standard
5454	≤0.25	≤0.40	≤0.10	0.5-1.0	2.4-3.0	0.05-0.20	≤0.25	≤0.20	—	EN573-3 GB/ T 3190
5083	≤0.40	≤0.40	≤0.10	0.40-1.0	4.0-4.9	0.05-0.25	≤0.25	≤0.15	—	
A5056	≤0.50	≤0.50	≤0.10	0.30-0.8	4.8-5.8	—	≤0.20	≤0.10	—	
6061	0.40-0.80	≤0.70	0.15-0.40	≤0.15	0.8-1.2	0.04-0.35	≤0.25	≤0.15	—	

- 可根据客户的特殊要求提供个性化研发  
provides one-stop R&D solution based on special requirements.

### 规格参数 Specification

合金 Alloy	状态 Temper	厚度(mm) Thickness	宽度(mm) Width	
5454	O/H111/H112	3-12	≤2600	
		>12-50	≤3800	
5083		3-12	≤2600	
		>12-50	≤3800	
A5056		3-12	≤2600	
		>12-200	≤3800	
6061		O/T4/T6	3-12	≤2600
			>12-50	≤3800

## 力学性能 Mechanical Properties

合金 Alloy	状态 Temper	抗拉强度 Rm(Mpa) Tensile Strength	屈服强度 Rp0.2(MPa) Yield Strength	延伸率 A(%) Elongation
5454	O/H111	215~275	≥85	≥18
	H112	≥215	≥90	≥13
5083	O/H111	275~350	125~200	≥16
	H112	≥275	≥125	≥12
A5056	O/H111	≥255	≥110	≥12
	H112	≥255	≥110	≥10
6061	O	≤150	≤85	≥16
	T4	≥205	≥110	≥16
	T6	≥290	≥240	≥8

- 可参考GB/T 3880、EN485、ASTM B209，亦可定制  
With reference to GB/T 3880, EN485, ASTM B209 or customer requirement

## 典型应用 Typical Applications



● 化工反应釜 Reaction kettle for chemical industry



● 医疗CT设备 CT equipment



● 液化天然气罐 Liquefied natural gas tank