大型车用铝合金产品

ALUMINUM ALLOY PRODUCTS FOR LARGE VEHICLES

产品介绍 Product Introduction

厢挂车 Car Trailer

专注于高端铝合金材料的研发与生产，为客户提供各种产品解决方案。能够提供适用于厢式挂车顶棚及侧板所需的3003、4017、5052等铝合金宽幅薄板产品，以及地板使用的宽幅6061地板型材。

focuses on the development and production of high-end aluminium alloy materials, and provides customers with various product solutions. has ability to produce wide aluminium alloy sheets such as 3003 alloy, 4017 alloy, 5052 alloy which are applied to van trailer's roof and side plate, and such as 6061 alloy applied to van trailer's floor.

翻斗车 Dump Truck

随着汽车轻量化的发展,铝合金在翻斗车上的应用也越来越广泛。通过降低每辆车的重量，提高有效载荷，达到最低的燃料消耗，同时具有更好的刹车性能和安全性能。本目录主要介绍翻斗车用5000系板材。

With the development of the lightweight of automobile, the application of aluminium alloy in dump truck is more and more extensive. By reducing the weight of truck to raise carrying load and consume the lowest fuel, meanwhile to get a better performance of brake and safety. This brochure mainly introduces 5000 series aluminium alloy plate applied to dump truck.

消防车 Fire Engine

随着汽车轻量化的发展,消防车也逐渐采用铝合金材料。通过降低每辆车的重量，提高有效载荷，达到最低的燃料消耗，同时具有更好的抗腐蚀性能、刹车性能和安全性能。本目录主要介绍消防车用5000系板材。

With the development of the lightweight of automobile, aluminium alloy is gradually applied to fire engine. By reducing the weight of truck to raise carrying load and consume the lowest fuel, meanwhile to get a better performance of corrosion resistance, brake and safety. This brochure mainly introduces 5000 series aluminium alloy plate applied to fire engine.

邮政车 Van

专注于高端铝合金材料的研发与生产，为客户提供各种产品解决方案。能够提供适用于邮政车用铝合金产品用6111铝合金产品。

focuses on the development and production of high-end aluminium alloy materials, and provides customers with various product solutions. has ability to provide 6111 aluminium alloy product applied to mail van.

车用铝合金板材的3个优势
3 Advantages of Aluminium Sheet

大规格
Large size

最大宽度达2650mm，
长度≥10000mm
Max.width reaches 2650mm
length ≥10000mm

+

高均匀
High Uniformity

采用气垫炉退火，同卷、卷与卷之间性能差异小
Annealed by continuous heat treatment line, and the properties differences of the same coil and between coils are slight.

+

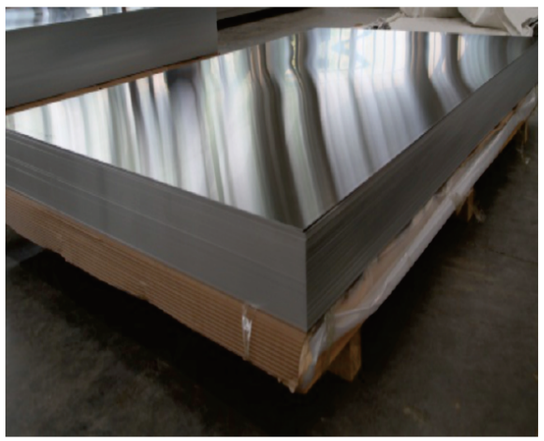
精尺寸、精板形
Precise dimension and excellent flatness

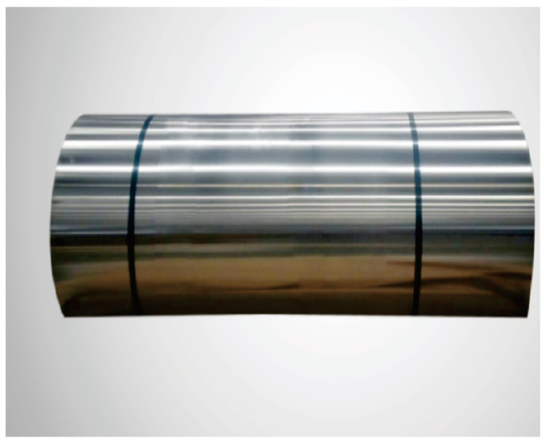
尺寸、板形满足欧美标准
dimension and flatness meet EN/ASTM standard.

化学成分 Chemical Composition

(wt%)

合金 Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	参考标准 Standard
3003	0.6	0.7	0.05~0.20	1.0~1.5	—	—	0.10	—	GB/EN/ASTM
4017	0.6~1.6	0.7	0.10~0.50	0.6~1.2	0.10~0.50	—	0.20	—	GB/EN
5052	0.25	0.40	0.10	0.10	2.2~2.8	0.15~0.35	0.10	—	GB/EN/ASTM
5083	0.40	0.40	0.10	0.40~1.0	4.0~4.9	0.05~0.25	0.25	0.15	GB/EN/ASTM
5454	0.25	0.40	0.10	0.50~1.0	2.4~3.0	0.05~0.20	0.25	0.20	GB/EN/ASTM
5754	0.40	0.40	0.10	0.50	2.6~3.6	0.30	0.20	0.15	GB/EN/ASTM
6061	0.40~0.8	0.7	0.15~0.40	0.15	0.8~1.2	0.04~0.35	0.25	0.15	GB/EN/ASTM
6111	0.60~1.1	≤0.40	0.50~0.90	0.10~0.45	0.50~1.0	≤0.10	≤0.15	≤0.10	GB
6N11	0.6~0.9	0.2~0.3	0.4~0.5	0.2~0.4	0.8~1.1	0.05~0.2	0.02~0.15	0.01~0.03	—





YIXINDA INTERNATIONAL LIMITED

板材规格 Specification

合金 Alloy	状态 Temper	厚度(mm) Thickness	宽度(mm) Width	长度(mm) Length
3003	H14/H16/H24/H26	0.2~3.5	2000~2650	≥10000
4017	H16	0.2~3.5	2000~2650	≥10000
5052	H32/H34	0.2~3.5	2000~2650	≥10000
5083	H32	4.0~8.0	1500~2650	2000~12000
5454	H32	4.0~8.0	1500~2650	C
5754	O	1.0~8.0	1200~2650	—
6111	T4P	0.7~2.0	1000~2650	≥10000
6N11	T6	0.8~1	2000~2651	≥10000

力学性能 Mechanical Properties

合金 Alloy	状态 Temper	厚度(mm) Thickness	屈服强度 Rp0.2(MPa) Yield Strength	抗拉强度 Rm(Mpa) Tensile Strength	延伸率 A50(%) Elongation
3003	H14	0.2~3.5	≥115	140~180	≥3
	H24				
	H16	0.2~3.5	≥145	165~205	≥3
	H26				
4017	H16	0.2~3.5	≥150	180~225	≥3
5052	H32	0.2~3.5	≥160	215~265	≥4
	H36		≥200	255~305	≥2
5083	H32	4.0~8.0	≥215	305~385	≥12
5454			≥180	250~305	≥12
5754	O	≥1.5~3.0	190~240	≥80	≥16
		≥3.0~6.0	190~240	≥80	≥18
6061型材	T6	0.8~1	≥240	≥260	≥7
6N11			≥300	≥340	≥6
6111	T4P	0.7~2.0	115~170	≥250	≥20

典型应用 Typical Applications

厢挂车车顶棚、侧墙蒙皮 Roof and sidewall skin of Van

翻斗车地板 Dump truck floor

消防车侧板 Fire engine side panel

典型案例 Typical Cases

案例一 Case 1

厢挂车——5052/3003铝合金板
VAN—5052/3003 aluminium alloy sheet

案例二 Case 2

厢挂车——3003/5052铝合金板材
VAN—3003/5052 aluminium alloy sheet