



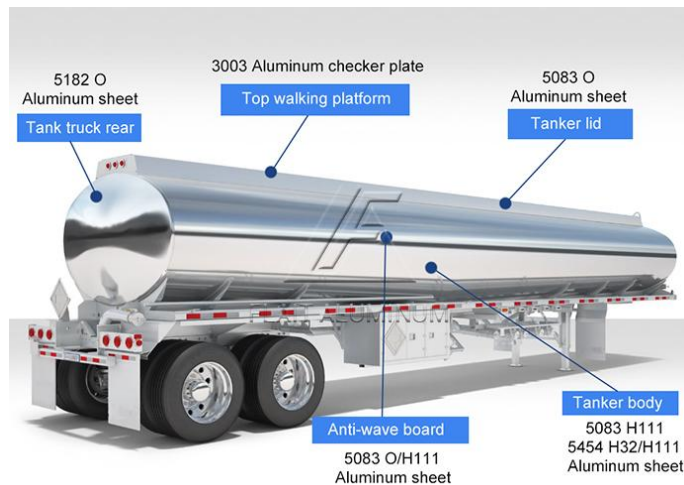
HENAN FLAIT ALUMINUM CO., LTD.

Flait Aluminum is committed to product R&D, production, sales and service.

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Aluminum Sheet for Tank Truck / Fuel Tanker



The main component of the 5 series aluminum plate for oil tank truck is magnesium, and the content is between 3% and 5%. Also known as aluminum-magnesium alloy. Tank truck aluminum plate can be used for continuous casting and rolling, so it can be used for oxidation and deep processing. 5*** series tanker aluminum plate has excellent corrosion resistance and welding performance, and is widely used in oil tanker, gas tanker, cement tanker, etc. The main aluminum sheets plates for tank truck are: 5083 aluminum sheet plate, 5182 aluminum sheet plate, 5454 aluminum sheet plate, 5754 aluminum sheet plate, 5052 aluminum sheet plate.

5052 Aluminum Sheet Plate for Tank Truck

5052 Aluminum sheet plate for tank truck is the most widely used antirust aluminum, is mainly used for high requirements, plasticity and good weldability, low load parts working in liquid or gaseous medium, such as tank truck fuel tank, gasoline or lubricating oil conduit, various liquid containers and other small parts made by deep drawing.



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5083 Aluminum Sheet Plate for Tank Truck

5083 Aluminum sheet plate for tank truck is the most widely used aluminum alloy in the manufacture of tanker. The two commonly used tempers for 5083 aluminum sheets plates in tanker body applications are H111 and O. 5083-O Aluminum sheet plate is annealed status and soft, suitable for bending, used for tank truck heads, lid and anti-wave board; 5083-H111 aluminum sheet plate has high strength, good plasticity, and can withstand certain impacts and vibrations, and is often used in tank truck bodies; 5083-H32 aluminum sheet plate has the strength and hardness lower than 5083-H111, can also be used to make the body of tank trucks, is usually suitable for occasions with small pressure and load; 5083-H321 aluminum sheet plate has excellent resistance to stress corrosion cracking and high-strength, is used in high-pressure environments, like the liquid level gauge, air inlet and other parts of oil tank trucks.



5182 Aluminum Sheet Plate for Tank Truck

5182 Aluminum sheet plate for oil tanker has high tensile strength and elongation, exceptional durability and corrosion resistance, excellent welding performance. When 5182 aluminum alloy is used for welding, the mechanical properties in welding can reach the minimum values specified for the base metal. Under the same diameter, the thickness of the aluminum tank truck made of 5182 aluminum plate can be 0.5mm - 1mm thinner than that of 5083 alloy. 5182 Aluminum sheet plate is commonly used in the manufacturing of fuel tankers or tank trailers.



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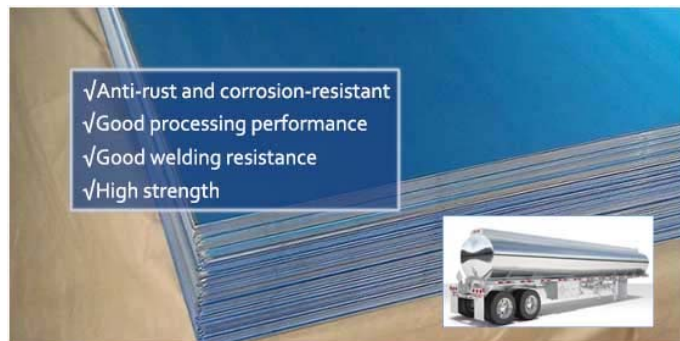
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5454 Aluminum Sheet Plate for Tank Truck

5454 Aluminum sheet plate for tank truck is a typical anti-rust aluminum with high strength, because of its strong corrosion resistance, it is especially suitable for aluminum-magnesium alloy tanker used under high temperature conditions. 5454-H32 Aluminum plate is the common temper of 5454 alloy, suitable for use under high temperature conditions. Surface abrasion resistance makes it the best material for powder tankers. 5454-H32 aluminum plate can still maintain better corrosion resistance and strength than other alloys when the long-term use temperature reaches 65-170°C. In addition, the internal temperature of the aluminum tank truck made of 5454 aluminum plate is more stable.



5754 Aluminum Sheet Plate for Tank Truck



5754 Aluminum sheet plate for tank truck has good anti-rust and corrosion resistance, no color difference on the anodized surface, excellent processability, high strength and weldability. It is widely used in welded structures, storage tanks, pressure vessels, ship structures and offshore installations, automobile manufacturing, and tank trucks. 5754 aluminum sheet plate in different heat treatment tempers is the main material used in the automobile manufacturing industry (car doors, molds, seals) and the production of tank cars. The commonly used tempers of 5754 aluminum plate are 5754-H111, H22, H12, H14, H114, etc.



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Product Specification

Alloy	Temper	Thickness(mm)	Width(mm)	Length(mm)
5083	O, H111, H112, H114, H116, H32, etc.	4.0-8.0	1000-2650	500-16000
5052		4.0-8.0	1000-2650	500-16000
5754		4.0-8.0	1000-2650	500-16000
5454		4.0-8.0	1000-2650	500-16000
5182		4.0-8.0	1000-2650	500-16000
Surface	Smooth surface, bright surface, mirror reflective surface			
Standards	GB/T 3880, EN14286, EN485, ASTM B209, or according to customer's special requirements			



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Chemical composition										
Alloys	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other(%)	
									Unit	Total
5083	0.20	0.35	0.15	0.20-0.50	4.0-5.0	0.10	0.25	0.10	0.05	0.15
5052	0.25	0.40	0.10	0.10	2.2-2.8	0.15-0.35	0.10	-	0.05	0.15
5754	0.40	0.40	0.10	0.10	2.6-3.6	0.30	0.20	0.15	0.05	0.15
5454	0.25	0.40	0.10	0.10	2.4-3.0	0.05-0.20	0.25	0.20	0.05	0.15
5182	0.20	0.35	0.15	0.15	4.0-5.0	0.10	0.25	0.10	0.05	0.15



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Mechanical character				
Alloys	Temper	Rm(Mpa)	Rp.02(Mpa)	Elongation(%)
5083	O/H111	≥275	≥125	≥15
	H112	≥275	≥125	≥12
5052	O/H111	170-215	≥65	≥16
	H112	≥190	≥80	≥7
5754	O/H111	190-240	≥80	≥16
	H112	≥190	≥80	≥7
5454	H32	≥250	≥180	≥8
5182	O/H111	≥280	≥125	≥26



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Advantages

1. Good plasticity, is easy to process, good ductility and has excellent forming performance.
2. Strong weldability, can be gas welding, arc welding, contact spot welding and wire welding.
3. High strength, corrosion resistance, wear resistance and rust resistance.
4. Plate shape, size accuracy and surface quality are high.
5. High recovery rate.

Application



The above mentioned aluminum product is produced according to national standard specifications. Please contact us for a free quote!

-----THIS IS THE END-----



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