



AL-BRIGHT 5454 TRANSPORT SHEET AND PLATE

TECHNICAL DATA

PRODUCT DESCRIPTION

Having the right size Al-Bright aluminum sheet and plate translates into better trailers. That is why Alcoa is offering the broadest range of bright aluminum sheet and plate with an unbeatable bright surface appearance and reflectivity. With Al-Bright, trailers can now be fabricated with fewer weld seams and lower costs.

FEATURES

Alcoa's Al-Bright product offers the ultimate in transportation sheet and plate products. The Al-Bright sheet was designed to provide the best surface reflectivity, image quality, metal luster, and uniformity of color ever. By using Alcoa's world class mills, rolling technology, and finishing processes, Al-Bright is transformed into the premium surface transportation product. One word alone describes the distinctness of image – Spectacular!

PRODUCT DETAILS

Chemical Composition Limits

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
0.25	0.40	0.10	0.5-0.10	2.40-3.0	0.05-0.2	0.25	0.2

Mechanical Properties

Alloy Temper	Minimum			Typical		
	Ultimate Mpa/ksi	Yield Mpa/ksi	Elong % in 2"	Ultimate Mpa/ksi	Yield Mpa/ksi	Elong % in 2"
5454-O	215/31.0	85/12.0	18	250/36.0	120/17.0	22
5454-H32	250/36.0	180/26.0	8	275/40.0	205/30.0	10
5454-H34	270/39.0	200/29.0	7	300/44.0	240/35.0	10

Typical Physical Properties

	SI	English
Density	2.67 x 10 ³ kg/m ³	0.1 lbs./in ³
Average Coefficient of Thermal Expansion	23.6 x 10 ⁻⁶ per °C (20 °C to 100 °C)	13.1 x 10 ⁻⁶ per °F (68 °F to 212 °F)
Approximate Melting Range	600 – 645 °C	1115 – 1195 °F
Thermal Conductivity	134 W/m*k at 25 °C	930 btu-in./ft ² hr °F

Approximate Bend Radii for 90° Cold Bend Sheet

Alloy/Temper	mm		in.		mm		in.	
	1.5	0.062	3.2	0.125	4.7	0.187	6.3	0.250
5454-O	1t		1t		1t		1-1/2t	
5454-H32	1t		2t		2t		2-1/2t	
5454-H34	1-1/2t		2t		2-1/2t		3t	

Radii expressed in terms of metal thickness "t"

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ALCOA MILL PRODUCTS

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Image Quality

Alcoa's three highly engineered surface products allow every customer the choice in the degree of image quality desired. Each product has been designed to produce a noticeable and consistent depth in distinctness of image. Depending on the look you want for your trailer, one of these products will be right for you.

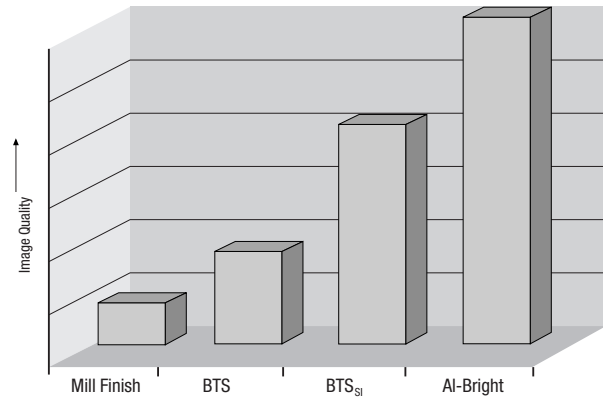


Image Quality is a function of distinctness of image

Product Specifications

Products	Sizes	Attributes
Bulk Transport Sheet	Gauge: 0.125" – 0.250" Width: 48" – 96" Length: 72" – 456"	High degree of surface uniformity, color, consistency, and selection.
Bulk Transport Sheet Specular Image	Gauge: 0.160" – 0.249" Width: 48" – 85" Length: 72" – 456"	Highly engineered mill surface with exceptional image and aesthetics.
Al-Bright	Gauge: 0.125" – 0.250" Width: 48" – 96" Length: 72" – 456"	Ultimate product in brightness, image clarity, surface uniformity.



PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. PLEASE INQUIRE IF PRODUCT SPECIFICATION REQUIRED IS NOT LISTED IN TABLE ABOVE.

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