



**PRODUCT DESCRIPTION**

Bulk Transport Sheet Specular Image is next in the series of Alcoa's products aimed at our continued commitment to the bulk transport family of products. Developed with the help of our industry renowned Alcoa Technical Center researchers and fabricated in our world class mills using Alcoa Production System principles, the *BTS* line of products offers unparalleled performance choices for every customer. Our newly introduced *BTS<sub>SI</sub>* offers an improved distinctness of image while maintaining all of the other attributes at the highest standards. Produced with our rolling technology, Alcoa's bright rolled *BTS<sub>SI</sub>* offers unmatched image quality, reflectance, and surface luster by anyone in the industry. Depending on the combination of material properties, functionality and aesthetics needed in your trailer, one of Alcoa's *BTS* products will be the right solution for you.

**FEATURES**

Alcoa's *BTS<sub>SI</sub>* sheet was designed to provide the best mill produced finish ever for the dump trailer market. Our unique rolling process and stringent fabrication practices enable Alcoa to produce the *BTS<sub>SI</sub>* with improved distinctness of image, exceptional reflectance, superior color match sheet-to-sheet as well as outstanding surface uniformity and consistency of appearance as compared to typical mill finish product. Every sheet of *BTS<sub>SI</sub>* is produced with the highest quality standards you've come to expect from our traditional *BTS* and Al-Bright products.

**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"
5454-0	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 <sup>3</sup> kg/m <sup>3</sup>	0.1 lbs./in <sup>3</sup>
Average Coefficient of Thermal Expansion	23.6 x 10 <sup>-6</sup> per °C (20 °C to 100 °C)	13.1 x 10 <sup>-6</sup> 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 <sup>2</sup> 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
5454-0	1t		1t		1t		1-1/2t	
5454-H32	1t		2t		2t		2-1/2t	
5454-H34	1-1/2t		2t		2-1/2t		3t	

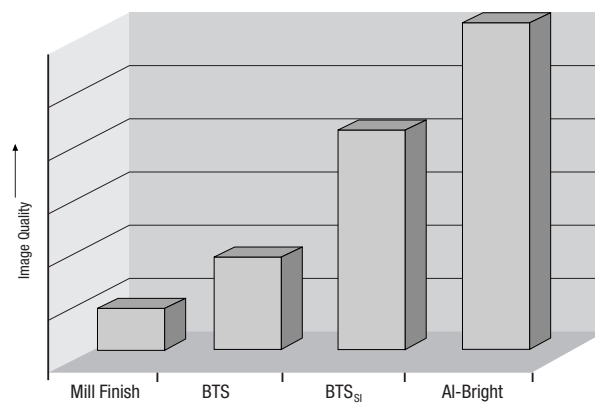
Radii expressed in terms of metal thickness "t"

**ALCOA MILL PRODUCTS**



### 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.

#### ALCOA MILL PRODUCTS

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