

Alcoa
Fastening
Systems & Rings



Industrial Distribution Group



ValueRivet®

Rivets and
Installation Tools



Open End Blind Rivets

Plated Carbon Steel Rivet-Carbon Steel Mandrel Button Head

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity
SB3-2V	.032-.125	#41 Drill (.097-.100)	M70100	10M	M44100	500
SB3-4V	.126-.250		M70102	10M	M44102	500
SB4-1V	.032-.062	#30 Drill (.129-.133)	M70111	10M	M44111	500
SB4-2V	.032-.125		M70112	10M	M44112	500
SB4-3V	.126-.187		M70115	10M	M44115	500
SB4-4V	.188-.250		M70117	10M	M44117	500
SB4-5V	.251-.312		M70120	10M	M44120	500
SB4-6V	.313-.375		M70121	10M	M44121	500
SB4-8V	.376-.500		M70122	10M	M44122	500
SB5-2V	.062-.125		#20 Drill (.160-.164)	M70132	8M	M44132
SB5-3V	.126-.187	M70134		8M	M44134	500
SB5-4V	.188-.250	M70135		8M	M44135	500
SB5-6V	.251-.375	M70136		6M	M44136	500
SB5-8V	.376-.500	M70137		6M	M44137	500
SB6-2V	.032-.125	#11 Drill (.192-.196)	M70145	5M	M44145	500
SB6-4V	.188-.250		M70147	5M	M44147	500
SB6-6V	.313-.375		M70149	5M	M44149	500
SB6-8V	.376-.500		M70152	4M	M44152	500
SB6-10V	.501-.625		M70155	4M	M44155	500
SB6-12V	.626-.750		M70159	4M	M44159	500
SB6-14V	.751-.875		M70163	3M	M44163	500
SB6-16V	.876-1.00		M70170	3M	M44170	500
SB8-2V	.062-.125	#F Drill (.257-.261)	M70179**	2M	M44179	100
SB8-4V	.126-.250		M70181**	2M	M44181	100
SB8-6V	.251-.375		M70183**	2M	M44183	100
SB8-8V	.376-.500		M70185**	2M	M44185	100
SB8-10V	.501-.625		M70187**	2M	M44187	100
SB8-12V	.626-.750		M70189**	2M	M44189	100
SB8-14V*	.751-.875		M70188**	1M	M44188	100
SB8-16V*	.876-1.000		M70190**	1M	M44190	100

Plated Carbon Steel Rivet-Carbon Steel Mandrel Large Flange

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity
SBL4-2V	.032-.125	#41 Drill (.097-.100)	M70114	10M	M44114	500
SBL4-3V	.126-.187		M74124	10M	M44124	500
SBL4-4V	.188-.250		M70119	10M	M44119	500
SBL4-6V	.251-.375		M70108	8M	M44108	500
SBL5-4V	.188-.250	#20 Drill (.160-.164)	M70138	4M	M44138	500
SBL6-4V	.188-.250	#11 Drill (.192-.196)	M70148	3M	M44148	500
SBL6-6V	.313-.375		M70150	3M	M44150	500
SBL6-8V	.376-.500		M70153	3M	M44153	500
SBL6-10V	.501-.625		M70156	2M	M44156	500
SBL6-12V	.626-.750		M70160	2M	M44160	500
SBL6-16V*	.876-1.00		M70167	2M	M44167	500
SBL8-4V*	.126-.250		#F Drill (.257-.261)	M78010**	1M	M44010
SBL8-6V*	.251-.375	M78011**		1M	M44011	100
SBL8-8V*	.376-.500	M78012**		1M	M44012	100
SBL8-10V*	.501-.625	M78013**		1M	M44013	100
SBL8-12V*	.626-.750	M78014**		1M	M44014	100

Plated Carbon Steel Rivet-Carbon Steel Mandrel 120° Countersunk

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity
SC4-2V	.062-.125	#30 Drill (.129-.133)	M70113	10M	M44113	500
SC4-3V	.126-.187		M70116	10M	M44116	500
SC4-4V	.188-.250		M70118	10M	M44118	500
SC4-6V	.251-.375		M70126	10M	M44126	500
SC6-4V	.062-.250	#11 Drill (.192-.196)	M70151	5M	M44151	500
SC6-6V*	.251-.375		M70129	5M	M44129	500

*Indicates minimum quantity may be required. **Indicates 100-Pack.

Open End Blind Rivets

Painted Plated Carbon Steel Rivet-Carbon Steel Mandrel Button Head

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity
SB4-2V GBK-1	.063-.125	#30 Drill (.129-.133)	M73060	10M	M44060	500
SB4-2V GWT-1	.063-.125		M73033	10M	M44033	500

GWT=Glossy White, GBK=Glossy Black

Aluminum Rivet-Aluminum Mandrel Button Head

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity	
AB3-2AV	.032-.125	#41 Drill (.097-.100)	M70200	10M	M44200	500	
AB3-4AV	.126-.250		M70202	10M	M44202	500	
AB4-1AV	.032-.062	#30 Drill (.129-.133)	M70211	10M	M44211	500	
AB4-2AV	.032-.125		M70212	10M	M44212	500	
AB4-3AV	.126-.187		M70215	10M	M44215	500	
AB4-4AV	.188-.250		M70217	10M	M44217	500	
AB4-5AV	.251-.312		M70220	10M	M44220	500	
AB4-6AV	.313-.375		M70221	10M	M44221	500	
AB4-8AV	.376-.500		M70222	10M	M44222	500	
AB4-10AV	.501-.625		M70225	9M	M44225	500	
AB5-2AV	.062-.125		#20 Drill (.160-.164)	M70232	8M	M44232	500
AB5-3AV	.126-.187			M70234	8M	M44234	500
AB5-4AV	.188-.250	M70235		8M	M44235	500	
AB5-6AV	.251-.375	M70236		6M	M44236	500	
AB5-8AV	.376-.500	M70237		6M	M44237	500	
AB6-2AV	.032-.125	#11 Drill (.192-.196)	M70245	5M	M44245	500	
AB6-4AV	.188-.250		M70247	5M	M44247	500	
AB6-6AV	.313-.375		M70249	5M	M44249	500	
AB6-8AV	.376-.500		M70252	4M	M44252	500	
AB6-10AV	.501-.625		M70255	4M	M44255	500	
AB6-12AV	.626-.750		M70259	4M	M44259	500	
AB6-14AV	.751-.875		M70263	3M	M44263	500	
AB6-16AV	.876-1.00		M70266	3M	M44266	500	
AB8-4AV	.126-.250	#F Drill (.257-.261)	M70281**	2M	M44281	100	
AB8-6AV	.251-.375		M70283**	2M	M44283	100	
AB8-8AV	.376-.500		M70285**	2M	M44285	100	
AB8-10AV	.501-.625		M70287**	2M	M44287	100	
AB8-12AV	.626-.750		M70289**	2M	M44289	100	
AB8-16AV	.876-1.00		M70290**	1M	M44290	100	

Aluminum Rivet-Aluminum Mandrel Large Flange

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity
ABL4-2AV	.032-.125	#30 Drill (.129-.133)	M70214	10M	M44214	500
ABL4-3AV	.126-.187		M70244	10M	M44244	500
ABL4-4AV	.188-.250		M70219	10M	M44219	500
ABL4-6AV	.251-.375		M70226	8M	M44226	500
ABL5-4AV	.063-.250	#20 Drill (.160-.164)	M70224	4M	M44224	500
ABL6-4AV	.062-.250	#11 Drill (.192-.196)	M70248	3M	M44248	500
ABL6-6AV	.251-.375		M70250	3M	M44250	500
ABL6-8AV	.376-.500		M70253	3M	M44253	500
ABL6-10AV	.501-.625		M70256	2M	M44256	500
ABL6-12AV	.626-.750		M70260	2M	M44260	500

Aluminum Rivet-Aluminum Mandrel 120° Countersunk

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity
AC4-2AV	.062-.125	#30 Drill (.129-.133)	M70213	10M	M44213	500
AC4-3AV	.126-.187		M70216	10M	M44216	500
AC4-4AV	.188-.250		M70218	10M	M44218	500
AC6-4AV	.062-.250	#11 Drill (.192-.196)	M70251	5M	M44251	500
AC6-6AV*	.251-.375		M70229	5M	M44229	500

Open End Blind Rivets

Painted Aluminum Rivet-Aluminum Mandrel Button Head

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity
AB4-2AV-GWT-1	.063-.125	#30 Drill (.129-.133)	M73032	10M	M44700	500
AB4-2AV-BR	.063-.125		M73097	10M	M44097	500
AB4-2AV-GBK-1	.063-.125		M73098	10M	M44098	500
AB4-3AV-GWT-1	.126-.187		M73007	10M	M44007	500
AB4-3AV-BR	.126-.187		M73081	10M	M44081	500
AB4-4AV-GWT-1	.188-.250		M73009	10M	M44009	500
AB4-4AV-BR	.188-.250		M73099	10M	M44099	500

Aluminum Rivet-Steel Mandrel Button Head

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity	
AB3-2V	.032-.125	#41 Drill (.097-.100)	M70300	10M	M44300	500	
AB3-4V	.126-.250		M70302	10M	M44302	500	
AB4-1V	.032-.062	#30 Drill (.129-.133)	M70311	10M	M44311	500	
AB4-2V	.032-.125		M70312	10M	M44312	500	
AB4-3V	.126-.187		M70315	10M	M44315	500	
AB4-4V	.188-.250		M70317	10M	M44317	500	
AB4-5V	.251-.312		M70320	10M	M44320	500	
AB4-6V	.313-.375		M70321	10M	M44321	500	
AB4-8V	.376-.500		M70322	10M	M44322	500	
AB4-10V	.501-.625		M70325	9M	M44325	500	
AB5-2V	.062-.125	#20 Drill (.160-.164)	M70332	8M	M44332	500	
AB5-3V	.126-.187		M70334	8M	M44334	500	
AB5-4V	.188-.250		M70335	8M	M44335	500	
AB5-6V	.251-.375		M70336	6M	M44336	500	
AB5-8V	.376-.500		M70337	6M	M44337	500	
AB6-2V	.032-.125	#11 Drill (.192-.196)	M70345	5M	M44345	500	
AB6-4V	.188-.250		M70347	5M	M44347	500	
AB6-6V	.313-.375		M70349	5M	M44349	500	
AB6-8V	.376-.500		M70352	4M	M44352	500	
AB6-10V	.501-.625		M70355	4M	M44355	500	
AB6-12V	.626-.750		M70359	4M	M44359	500	
AB6-14V*	.751-.875		M70363	3M	M44363	500	
AB6-16V*	.876-1.00		M70366	3M	M44366	500	
AB8-4V	.062-.250		#F Drill (.257-.261)	M70381**	2M	M44381	100
AB8-6V	.251-.375			M70383**	2M	M44383	100
AB8-8V	.376-.500	M70385**		2M	M44385	100	
AB8-10V	.501-.625	M70387**		2M	M44387	100	
AB8-12V	.626-.750	M70389**		2M	M44389	100	
AB8-14V*	.751-.875	M70388**		1M	M44388	100	
AB8-16V*	.876-1.00	M70390**		1M	M44390	100	

Aluminum Rivet-Steel Mandrel Large Flange

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity
ABL4-2V	.032-.125	#30 Drill (.129-.133)	M70314	10M	M44314	500
ABL4-3V	.126-.187		M70324	10M	M44324	500
ABL4-4V	.188-.250		M70319	10M	M44319	500
ABL5-4V	.126-.250	#20 Drill (.160-.164)	M70338	4M	M44338	500
ABL6-4V	.062-.250	#11 Drill (.192-.196)	M70348	3M	M44348	500
ABL6-6V	.251-.375		M70350	3M	M44350	500
ABL6-8V	.376-.500		M70353	3M	M44353	500
ABL6-10V	.501-.625		M70356	2M	M44356	500
ABL6-12V	.626-.750		M70360	2M	M44360	500
ABL6-14V	.751-.875		M70365	2M	M44365	500
ABL6-16V	.876-1.00		M70367	2M	M44367	500

Open End Blind Rivets

Aluminum Rivet-Aluminum Mandrel

120° Countersunk

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity
AC4-2V	.062-.125	#30 Drill (.129-.133)	M70313	10M	44313	M500
AC4-3V	.126-.187		M70316	10M	44316	M500
AC4-4V	.188-.250		M70318	10M	44318	M500
AC4-5V*	.251-.312		M70323	10M	44323	M500
AC5-4V	.188-.250	#20 Drill (.160-.164)	M70340	8M	44340	M500
AC5-6V*	.251-.375		M70342	6M	44342	M500
AC6-4V	.126-.250	#11 Drill (.192-.196)	M70351	5M	44351	M500

Stainless Steel Rivet-Stainless Steel Mandrel

Button Head

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity
SSB4-2SV	.032-.125	#30 Drill (.129-.133)	M70414	10M	M44412	500
SSB4-3SV	.126-.187		M70415	10M	M44415	500
SSB4-4SV	.188-.250		M70417	10M	M44417	500
SSB4-5SV	.251-.312		M70420	10M	M44420	500
SSB4-6SV	.313-.375		M70421	10M	M44421	500
SSB4-8SV	.376-.500		M70422	10M	M44422	500
SSB5-2SV	.062-.125	#20 Drill (.160-.164)	M70432	8M	M44432	500
SSB5-4SV	.188-.250		M70435	8M	M44435	500
SSB5-6SV	.251-.375		M70436	6M	M44436	500
SSB5-8SV	.376-.500		M70437	6M	M44437	500
SSB6-2SV	.032-.125	#11 Drill (.192-.196)	M70445	5M	M44445	500
SSB6-4SV	.188-.250		M70447	5M	M44447	500
SSB6-6SV	.313-.375		M70449	5M	M44449	500
SSB6-8SV	.376-.500		M70450	4M	M44450	500
SSB6-10SV	.501-.625		M70457	4M	M44457	500
SSB6-12SV	.626-.750		M70458	4M	M44458	500
SSB8-4SV	.062-.250	#F Drill (.257-.261)	M70481**	2M	M44481	100
SSB8-6SV	.251-.375		M70483**	2M	M44483	100
SSB8-8SV	.376-.500		M70485**	2M	M44485	100
SSB8-10SV	.501-.625		M70487**	2M	M44487	100
SSB8-12SV	.626-.750		M70489**	2M	M44489	100

Stainless Steel Rivet-Stainless Steel Mandrel

Large Flange

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity
SSBL4-2SV	.032-.125	#30 Drill (.129-.133)	M70409	10M	M44409	500
SSBL4-3SV	.126-.187		M70416	10M	M44416	500
SSBL4-4SV	.188-.250		M70418	10M	M44418	500
SSBL4-6SV	.251-.375		M70408	8M	M44408	500
SSBL6-4SV	.062-.250	#11 Drill (.192-.196)	M70452	3M	M44452	500
SSBL6-6SV	.251-.375		M70453	3M	M44453	500
SSBL6-8SV	.376-.500		M70456	3M	M44456	500
SSBL6-10SV	.501-.625		M70451	2M	M44451	500
SSBL6-12SV	.626-.750		M70455	2M	M44455	500

Multi-Grip Blind Rivets

Multi-Grip Aluminum Rivet, Clear Zinc Plated Steel Mandrel Buttonhead

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity
AB41-43MGV	.031-.187	#30 Drill (.129-.133)	M76315	10M	M44751	500
AB43-45MGV	.125-.315		M76320	10M	M44756	500
AB44-46MGV	.188-.377		M76321	10M	M44757	500
AB52-54MGV	.062-.250	#20 Drill (.160-.164)	M76335	8M	M44771	500
AB62-64MGV	.062-.250	#11 Drill (.192-.196)	M76347	4M	M44783	500
AB63-67MGV	.189-.437		M76351	4M	M44787	500
AB63-68MGV	.315-.500		M76352	4M	M44788	500
AB68-612MGV	.440-.750		M76359	4M	M44795	500

Multi-Grip Aluminum Rivet, Clear Zinc Plated Steel Mandrel Large Flange

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity
ABL41-43MGV	.031-.187	#30 Drill (.129-.133)	M76314	10M	M44752	500
ABL43-45MGV	.125-.315		M76322	8M	M44755	500
ABL62-64MGV	.062-.250	#11 Drill (.192-.196)	M76350	3M	M44785	500
ABL66-68MGV	.315-.500		M76353	3M	M44790	500
ABL68-612MGV	.440-.750		M76360	2M	M44797	500

Multi-Grip Aluminum Rivet, Clear Zinc Plated Steel Mandrel 120° Countersunk

Part #	Grip Range	Drill No. & Hole Size	Bulk Stock Number	Std Ctn. Quantity	500-Pack Stock No.	Package Quantity
AC41-43MGV	.031-.187	#30 Drill (.129-.133)	M76318	10M	M44754	500
AC43-45MGV	.125-.315		M76324	8M	M44759	500
AC62-65MGV	.062-.315	#11 Drill (.192-.196)	M76361	5M	M44789	500
AC66-68MGV	.315-.500		M76362	4M	M44791	500

Terms:

We reserve the right to substitute Marson brand for Value Rivet brand at any time.

Terms of Sale – Net 30 days.

Freight Terms – Freight prepaid by our chosen carrier on shipments of \$750.00 within the Continental U.S.A.

Tools and fasteners may be combined for prepaid freight. Minimum order \$50.00; \$5.00 for repair parts.

Returns – No returns accepted without prior written approval. All returns subject to 15% handling, restocking and inspection charge.

Warranty – Alcoa warrants its product(s) to be free from defects in material and workmanship. Alleged defective material is subject to inspection. Material will be replaced or credit issued at our option after inspection. Alcoa is not responsible for secondary operations performed after the sale of product.

Pricing – Different rivets and/or tools may be combined to qualify for volume pricing. Prices subject to change without notice and minimum quantities may apply.

Monobolt, Interlock and Hemlock are registered trademarks of Textron Fastening Systems.

Ultra-Grip is a registered trademark of Emhart Fastening Technologies.

Tigerbolt is a registered trademark of Celus Fasteners Mfg.

Rivet Tools



VHR-1/M79000

Hand-operated rivet tool

- Sets 3/32"-5/32" diameter rivets in all alloys; 3/16" in steel
- Durable, all-steel construction
- Service wrench and locking tab included



VHR-2/M79032

Hand-operated lever tool

- Sets 1/8"-1/4" diameter rivets in all materials.
- Can also set T-Rivet/Klik-Split®, Klik-Lock®, Magna-Lok®, Magna-Bulb®, Hemlock® Tigerbolt®, Ultra-Grip®, Monobolt®, Interlock® and Q-Lok® fasteners



Swivel Air Inlets

M95975

- Swivel air inlet fitting for V-2 and V/4 air-hydraulic tools

M95740

- Swivel air inlet fitting for V-3 air-hydraulic tools



VHR-1X/M79002

Hand-operated rivet tool

- Sets 3/32"-5/32" diameter rivets in all alloys; 3/16" in steel
- Extended nosepiece reach of 1-3/4"
- Durable, all-steel construction
- Service wrench and locking tab included



V-2/M79014

Air-Hydraulic tool

- Sets 1/8"-3/16" diameter rivets in all materials
- Pulling force: 1870 lbs; Stroke: .551"
- Recommended airline pressure: 85-95 lb. Psi. Weight: 3.2 lbs.



V-3/M79050

Air-Hydraulic tool

- Sets 1/8"-3/16" diameter rivets in all materials
- Pulling force: 1983 lb.; Stroke: .551"
- Recommended airline pressure: 85-95 lb. Psi. Weight: 3.2 lbs.



V-4/M79060

Air-Hydraulic tool

- Sets 3/32"-1/4" diameter rivets in all materials.
- Pulling force: 3055 lb.; Stroke: .562"
- Recommended airline pressure: 85-95 lb. Psi. Weight: 4.2 lbs.

Alcoa Fastening Systems & Rings



For more than 120 years, the name Alcoa has been recognized worldwide as a strong leader in product quality and customer support. These strengths are found in every product manufactured for Alcoa Fastening Systems & Rings, offering the greatest breadth and depth of fastening system solutions in the industry.

Alcoa Fastening Systems & Rings (AFSR) maintains company offices in the United States and in many other countries. AFSR fastener distributors are also located in many of the world's industrial centers, where they provide a ready source of AFSR fasteners, installation tools, tool parts, and application assistance.

Americas

Industrial Fasteners Division
Group Headquarters
8001 Imperial Drive
Waco, TX 76712, USA
P.O. Box 8117
Waco, TX 76714-8117, USA
Tel: 800 388 4825
Fax: 800 798 4825

Fasteners Division
1 Corporate Drive
Kingston, NY 12401, USA
Tel: 800 278 4825
Fax: 845 334 7333

Industrial Distribution Group
1925 North MacArthur Drive
Tracy, CA 95376, USA
Tel: 800 826 2884
Fax: 800 573 2645

Industrial Distribution Group
14300 Clay Terrace Blvd.
Suite 250
Camel, IN 46032, USA
Tel: 800 826 2884
Fax: 800 573 2645

Industrial Fasteners Division
Avenida Parque Lira
79-402 Tacubaya
Mexico C P 11850
Tel: +52 55 5515 1776
Fax: +52 55 5277 7564

Industrial Fasteners Division
Av. Nações Unidas, 12.901
Torre Oeste, 3º andar
São Paulo – SP – Brasil
04578-000
Tel: 0800 015 9888
Fax: +55 11 5509 0200

International Locations

Industrial Fasteners Division
Unit no. 28, Chowringhee Court
55/1, Chowringhee Road
Kolkata – 700071
India
Tel: +91 33 4069 9170/80
Fax: +91 33 4069 9184

Industrial Fasteners Division
Alcoa Japan Ltd.
#1013 NBF Hibiya Bldg.
Uchisaiwai-cho, Chiyoda-ku
Tokyo 100-1011
Japan
Tel: +81 3 3539 6577
Fax: +81 3 3539 6585

Industrial Fasteners Division
1508 Centre Road
Clayton, Victoria, 3168
Australia
Tel: +61 3 8545 3333
Fax: +61 3 8545 3390

Fasteners Division
58 Yinsheng Road, Shengpu
Suzhou Industrial Park
Suzhou Jiangsu 215126
China
Tel: 0512 62823800-8888
Fax: 0512 62863810

Industrial Fasteners Division
Unit C, Stafford Park 7
Telford, Shropshire TF3, 3BQ
United Kingdom
Tel: +44 1952 2900 11
Fax: +44 1952 2904 59

Fasteners Division
St Cosme Operations
9 rue de Cressonnieres
72110 Saint Cosme en Varais
France
Tel: +33 0 2.43.31.41.00
Fax: +33 0 2.43.31.41.41

Fasteners Division
Kelkheim Operations
Industriestr. 6
65779 Kelkheim
Germany
Tel: +49 [0] 6195 8050
Fax: +49 [0] 6195 2001

AFSIndustrial.com

The information contained in this publication is only for general guidance, and is not intended to create any warranty, express, implied, or statutory; all warranties are contained only in AFSR's written quotations, acknowledgments, and/or purchase orders. It is recommended that the user secure specific, up-to-date data and information regarding each application and/or use of such products.

**Alcoa
Fastening
Systems & Rings**

