



**ABRAMS**®  
PREMIUM ALUMINIUM

**PREMIUM-ALUMINIUM**

in three specifications:

**ALU-PRÄZ®**

**PRECISION ROUND ALUMINIUM**

**ROUND ALUMINIUM**

**8 GRADES IN 4,307 DIMENSIONS**  
**EX WORKS FROM OSNABRÜCK / GERMANY**  
**DELIVERY IN 3-5 WORKING DAYS (SUBJECT TO AVAILABILITY)**

**WITHOUT MINIMUM ORDER VALUE**  
**WITHOUT MINIMUM ORDER QUANTITY**  
**SPECIAL CUSTOM DIMENSIONS SAWN - MILLED - GROUND**

## CONSISTENTLY DYNAMIC !

... that is ABRAMS®.

New product line <b>ABRAMS PREMIUM ALUMINIUM®</b>	<b>2020</b>	
New product line <b>Hart-Präz®</b>	<b>2018</b>	Expansion to <b>70</b> PREMIUM steel grades and <b>32,629</b> dimensions
New product line <b>ABRAMS® PREMIUM TOOLS</b>	<b>2015</b>	
	<b>2011</b>	Expansion to <b>52</b> PREMIUM steel grades and <b>21,078</b> dimensions
The <b>ABRAMS STEEL GUIDE®</b> going live	<b>2010</b>	
	<b>2009</b>	Expansion to <b>35</b> PREMIUM steel grades and <b>8,259</b> dimensions
	<b>2008</b>	Expansions to <b>32</b> PREMIUM steel grades and <b>7,155</b> dimensions
	<b>2007</b>	Expansion to <b>22</b> PREMIUM steel grades and <b>5,954</b> dimensions
Print of the first <b>ABRAMS®</b> art calendar	<b>2006</b>	
	<b>2005</b>	Expansion to <b>10</b> Premium steel grades and <b>3,649</b> dimensions
Market launch of <b>ABRAMS PREMIUM STEEL®</b>	<b>2003</b>	Launch of <b>8</b> PREMIUM steel grades and <b>2,805</b> dimensions
Founding of <b>ABRAMS®</b>	<b>2002</b>	

Yours sincerely,



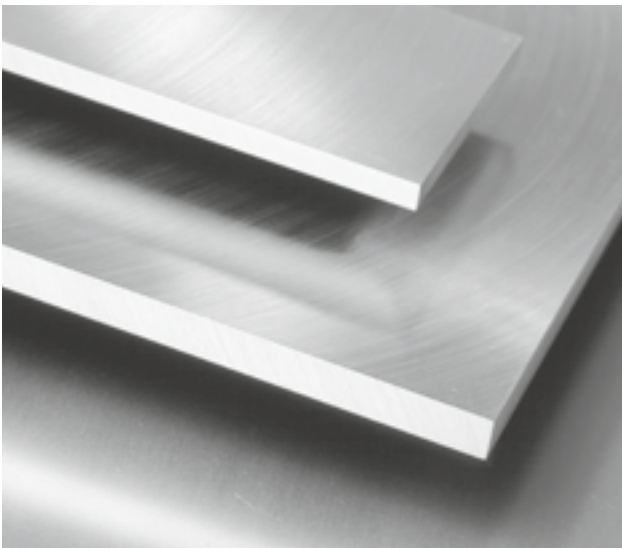
Dr. Jürgen Abrams  
Managing Director

## VERSATILE !

**ABRAMS!**®  
PREMIUM ALUMINIUM

### PREMIUM-ALUMINIUM

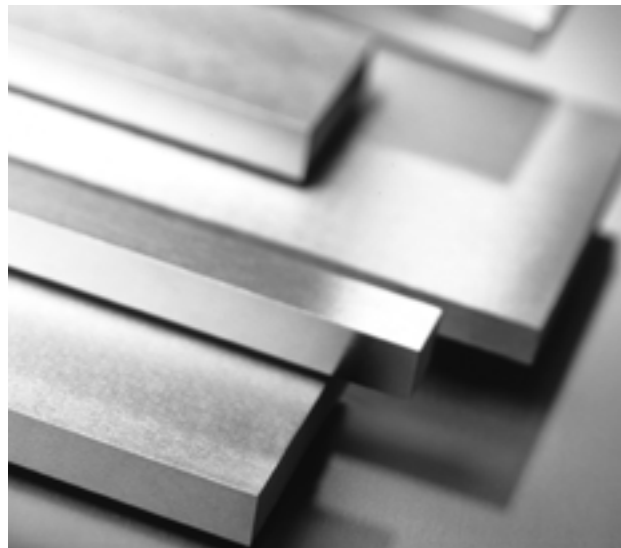
- **8** aluminium grades in **4,307** dimensions
- In **3** specifications
  - **ALU-PRÄZ**®
  - **PRECISION ROUND ALUMINIUM**
  - **ROUND ALUMINIUM**



**ABRAMS!**®  
PREMIUM STEEL

### PREMIUM STEEL

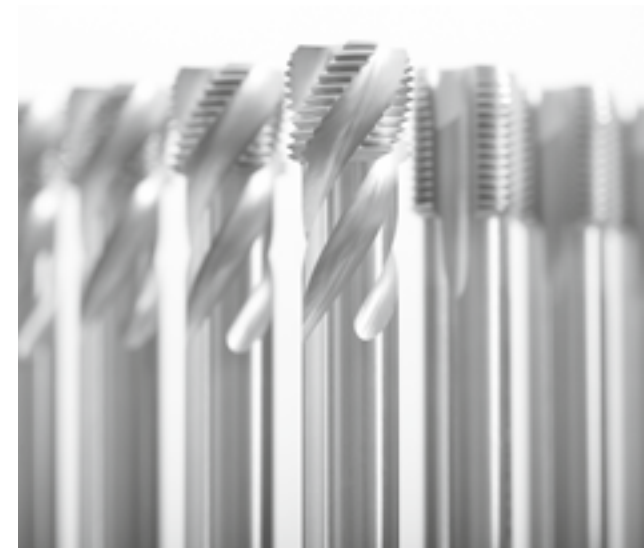
- **70** steel grades in **32,629** dimensions
- **PRECISION FLAT STEEL** with / without machining allowance
- **€co-Präz**® - Standardized precision blanks
- **Hart-Präz**® - Hardened precision plates
- **PRECISION ROUND STEEL** with / without machining allowance
- **ROUND STEEL**
- **EROSION BLOCK** annealed / hardened
- WITHOUT MINIMUM ORDER VALUE OR QUANTITY
- SPECIAL CUSTOM DIMENSIONS SAWN - MILLED - GROUND



**ABRAMS!**®  
PREMIUM TOOLS

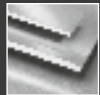
### PREMIUM-UNIVERSAL-TAPS

- **96** items in **6** categories
- Metric standard thread
  - For clearance holes
  - **M-DIN 371-Form B**
  - **M-DIN 376-Form B**
  - For blind holes
  - **M-DIN 371-Form C**
  - **M-DIN 376-Form C**
- Metric fine thread
  - For clearance holes
  - **MF-DIN 374-Form B**
  - For blind holes
  - **MF-DIN 374-Form C**



## SPECIFICATIONS !

Our delivery program contains 4,307 different specifications/standard dimensions.  
Any dimension is available in different **heights**, **width** and **length**. On your request - according to your needs!



### ALU-Präz® [ALU]

For example: 123 x 12.0 x 500 mm

- **W** sawn | tol. +3 /-0 mm
- **T** finely milled | tol. + 0.1 / - 0.1 mm (both sides foiled)
- **L** sawn | tol. +5 /-0 mm



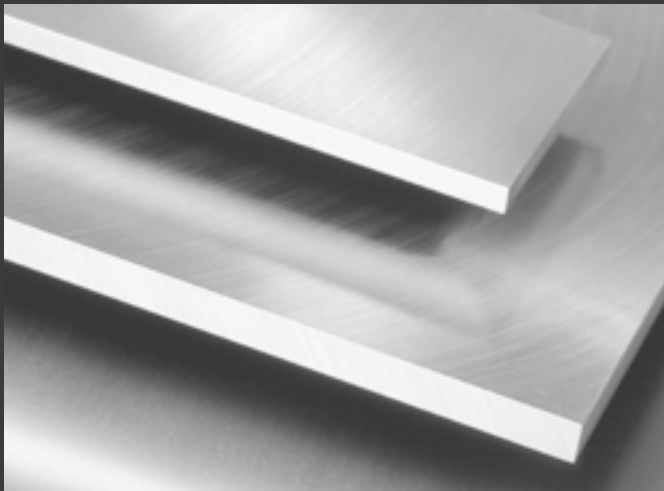
### Precision round aluminium [PRA]

- drawn | tol.: Ø EN754-3 (~h11)
- **L** sawn | tol. +10 /-10 mm



### Round aluminium [RA]

- pressed | tol.: Ø +1 /-1 mm (aspired)
- **L** sawn | tol. +10 /-10 mm



## ALUMINIUM

ALUMINIUM ALLOY  
TO DIN EN 573-3

	Chem. designation to DIN EN 573-3	Abbreviation to DIN 1712-3	Aluminium alloy to DIN 1712-3	ALU-Präz® 500, 1.000 mm	PRA 500, 1.000 mm	RA 500, 1.000 mm	Delivery hardness max. [HB]	Approx. tensile strength [N/mm²] (deliv. cond.)	Anodisability	Age-hardenability	
<b>PREMIUM EN AW-2007</b>	EN AW-AlCu4PbMgMn	AlCuMgPb	3.1645		✓	✓	130	420		✓	<b>EN AW-2007</b>
<b>PREMIUM EN AW-2011</b>	EN AW-AlCu6BiPb	AlCuBiPb	3.1655		✓		120	390		✓	<b>EN AW-2011</b>
<b>PREMIUM EN AW-5083</b>	EN AW-AlMg4.5Mn0.7	AlMg4.5Mn	3.3547	✓		✓	100	290	✓		<b>EN AW-5083</b>
<b>PREMIUM EN AW-5754</b>	EN AW-AlMg3	AlMg3	3.3535	✓		✓	50	210	✓		<b>EN AW-5754</b>
<b>PREMIUM EN AW-6060</b>	EN AW-AlMgSi	AlMgSi0.5	3.3206			✓	80	240	✓	✓	<b>EN AW-6060</b>
<b>PREMIUM EN AW-6082</b>	EN AW-AlSi1MgMn	AlMgSi1	3.2315	✓	✓	✓	105	300	✓	✓	<b>EN AW-6082</b>
<b>PREMIUM EN AW-7021</b>	EN AW-AlZn5.5Mg1.5	-	-	✓			120	350	✓	✓	<b>EN AW-7021</b>
<b>PREMIUM EN AW-7075</b>	EN AW-AlZn5.5MgCu	AlZnMgCu1.5	3.4365	✓		✓	140	450	✓	✓	<b>EN AW-7075</b>

4,307 STANDARD DIMENSIONS!



## PREMIUM EN AW-2007 – EN AW-AlCu4PbMgMn (AlCuMgPb / 3.1645)

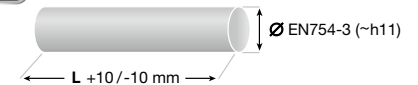
Precision round aluminium [PRA]

Specification: drawn

Ø [mm]	LENGTH [mm]	
	500	1,000
8.0	•	•
9.0	•	•
10.0	•	•
11.0	•	•
12.0	•	•
13.0	•	•
14.0	•	•
15.0	•	•
16.0	•	•
17.0	•	•
18.0	•	•
19.0	•	•
20.0	•	•
21.0	•	•
22.0	•	•
23.0	•	•
24.0	•	•
25.0	•	•
26.0	•	•
28.0	•	•
30.0	•	•
32.0	•	•
35.0	•	•
36.0	•	•
38.0	•	•
40.0	•	•
42.0	•	•
45.0	•	•
50.0	•	•
55.0	•	•
60.0	•	•



### Tolerances



### Standard values

Delivery condition: maximum 130 HB

Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Pb
0	0	3.3	0.5	0.4	0	0	0	0	0.8
0.8	0.8	4.6	1.0	1.8	0.1	0.2	0.8	0.2	1.5



### If you need customised dimensions -

Any dimension available in different lengths (e.g. round blanks).

On request - according to your needs!



### Contact us

T: +44 (0) 121 368 0910

E: sales@abrams-industries.co.uk



### Direct access to our online shop

[www.premium-aluminium.co.uk/2007-3-A](http://www.premium-aluminium.co.uk/2007-3-A)



### Technical properties

The age-hardenable alloy EN AW-2007 is the mainly used free-cutting alloy. It is ideal for machining due to its high strength and short chip-break and makes it possible to machine it on high-speed automatic lathes and multi-spindle machines. Due to its low corrosion resistance it is recommended to anodise finished parts for protection.

Tensile strength (on delivery): approx. 370-470 N/mm².



### Applications

Drilling-, turning- and milling properties (free cutting alloy), mechanical engineering and jigs and fixtures, screws, nuts.



### EN AW-2007 – all at a glance!

Datasheets and online shop:

[www.premium-aluminium.co.uk/2007](http://www.premium-aluminium.co.uk/2007)

via smartphone/tablet:



## PREMIUM EN AW-2007 – EN AW-AlCu4PbMgMn (AlCuMgPb / 3.1645)

Round aluminium [RA]

Specification: pressed

Ø [mm]	LENGTH [mm]	
	500	1,000
Available dimensions [•]		
8	•	•
10	•	•
12	•	•
15	•	•
16	•	•
18	•	•
20	•	•
25	•	•
28	•	•
30	•	•
32	•	•
35	•	•
38	•	•
40	•	•
42	•	•
45	•	•
50	•	•
55	•	•
60	•	•
65		•
70		•
75		•
80		•
90		•
100		•

Larger diameters Ø and different lengths (e.g. round blanks) available on request!



### Technical properties

The age-hardenable alloy EN AW-2007 is the mainly used free-cutting alloy. It is ideal for machining due to its high strength and short chip-break and makes it possible to machine it on high-speed automatic lathes and multi-spindle machines. Due to its low corrosion resistance it is recommended to anodise finished parts for protection.

Tensile strength (on delivery): approx. 370-470 N/mm².

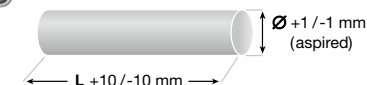


### Applications

Drilling-, turning- and milling properties (free cutting alloy), mechanical engineering and jigs and fixtures, screws, nuts.



### Tolerances



### Standard values

Delivery condition: maximum 130 HB  
Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Pb
0	0	3.3	0.5	0.4	0	0	0	0	0.8
0.8	0.8	4.6	1.0	1.8	0.1	0.2	0.8	0.2	1.5



### If you need customised dimensions -

Any dimension available in different lengths (e.g. round blanks).

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[www.premium-aluminium.co.uk/2007-4-A](http://www.premium-aluminium.co.uk/2007-4-A)



### EN AW-2007 – all at a glance!

Datasheets and online shop:

[www.premium-aluminium.co.uk/2007](http://www.premium-aluminium.co.uk/2007)

via smartphone/tablet:





**PREMIUM QUALITY - OUR HIGHEST STANDARD!**



## PREMIUM EN AW-2011 – EN AW-AlCu6BiPb (AlCuBiPb / 3.1655)

Precision round aluminium [PRA]

Specification: drawn

Ø [mm]	LENGTH [mm]	
	500	1,000
Available dimensions [°]		
3.0	●	●
4.0	●	●
5.0	●	●
6.0	●	●
7.0	●	●
8.0	●	●
10.0	●	●
12.0	●	●
15.0	●	●
20.0	●	●
25.0	●	●
30.0	●	●
35.0	●	●
40.0	●	●
45.0	●	●
50.0	●	●
55.0	●	●
60.0	●	●



### Technical properties

The alloy EN AW-2011 is an enhancement of the EN AW-2007. It is especially suitable for high cutting speeds due to the very short chip-break. This material can also be heat treated. Tensile strength (on delivery): approx. 370-410 N/mm².

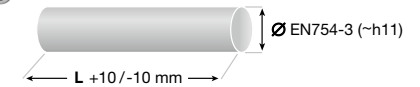


### Applications

Drilling-, turning- and milling properties (free cutting alloy), mechanical engineering, aviation and aerospace, defence technology.



### Tolerances



### Standard values

Delivery condition: maximum 120 HB  
Chemical composition:

Si	Fe	Cu	Bi	Zn	Pb
0	0	5.0	0.2	0	0.2
0.4	0.7	6.0	0.6	0.3	0.6



### If you need customised dimensions -

Any dimension available in different lengths (e.g. round blanks).  
On request - according to your needs!



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### Direct access to our online shop

[www.premium-aluminium.co.uk/2011-3-A](http://www.premium-aluminium.co.uk/2011-3-A)



### EN AW-2011 – all at a glance!

Datasheets and online shop:  
[www.premium-aluminium.co.uk/2011](http://www.premium-aluminium.co.uk/2011)

via smartphone/tablet:



## PREMIUM EN AW-5083 – EN AW-AMg4.5Mn0.7 (AMg4.5Mn / 3.3547)

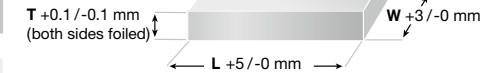
ALU-Präz® 500 [ALU]

Length: 500 mm

	THICKNESS [mm]													
	5.0	6.0	8.0	10.0	12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	70.0	80.0
WIDTH	Available dimensions [mm]													
33	■	■	■	■	■	■	■	■	■					
43	■	■	■	■	■	■	■	■	■	■				
53	■	■	■	■	■	■	■	■	■	■	■			
63	■	■	■	■	■	■	■	■	■	■	■	■		
73	■	■	■	■	■	■	■	■	■	■	■	■	■	
83	■	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■	■	■



### Tolerances



### Standard values

Delivery condition: maximum 100 HB

Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
0	0	0	0.4	4.0	0.05	0	0
0.4	0.4	0.1	1.0	4.9	0.25	0.25	0.15



### If you need customised dimensions -

Any dimension available in different heights, widths and lengths.

On request - according to your needs!



### Contact us

T: +44 (0) 121 368 0910

E: sales@abrams-industries.co.uk



### Direct access to our online shop

[www.premium-aluminium.co.uk/5083-1-A](http://www.premium-aluminium.co.uk/5083-1-A)



### Technical properties

This universal alloy (here cast version) has a very high corrosion resistance and can be used effectively in seawater. The cast material is stress-free and therefore easier to machine. Furthermore, EN AW-5083 is very well suited for hard anodising, technical anodising and protective coatings.

Tensile strength (on delivery): approx. 275-315 N/mm².



### Applications

Apparatus engineering, container and vehicle construction, refrigeration technology, naval construction, laminating tools, blow moulds, injection moulds, tool making, mould- and model making.



### EN AW-5083 – all at a glance!

Datasheets and online shop:

[www.premium-aluminium.co.uk/5083](http://www.premium-aluminium.co.uk/5083)

via smartphone / tablet:



# PREMIUM EN AW-5083 – EN AW-AMg4.5Mn0.7 (AlMg4.5Mn / 3.3547)

ALU-Präz® 1,000 [ALU]

Length: 1,000 mm

WIDTH	THICKNESS [mm]													
	5.0	6.0	8.0	10.0	12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	70.0	80.0
	Available dimensions [mm]													
33	■	■	■	■	■	■	■	■	■					
43	■	■	■	■	■	■	■	■	■	■				
53	■	■	■	■	■	■	■	■	■	■	■			
63	■	■	■	■	■	■	■	■	■	■	■	■		
73	■	■	■	■	■	■	■	■	■	■	■	■	■	
83	■	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■	■	■



## Technical properties

This universal alloy (here cast version) has a very high corrosion resistance and can be used effectively in seawater. The cast material is stress-free and therefore easier to machine. Furthermore, EN AW-5083 is very well suited for hard anodising, technical anodising and protective coatings.  
Tensile strength (on delivery): approx. 275-315 N/mm².



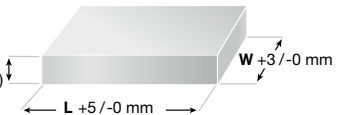
## Applications

Apparatus engineering, container and vehicle construction, refrigeration technology, naval construction, laminating tools, blow moulds, injection moulds, tool making, mould- and model making.



## Tolerances

T +0.1 / -0.1 mm  
(both sides foiled)



## Standard values

Delivery condition: maximum 100 HB  
Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
0	0	0	0.4	4.0	0.05	0	0
0.4	0.4	0.1	1.0	4.9	0.25	0.25	0.15



## If you need customised dimensions -

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On request - according to your needs!



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[www.premium-aluminium.co.uk/5083-2-A](http://www.premium-aluminium.co.uk/5083-2-A)



## EN AW-5083 – all at a glance!

Datasheets and online shop:  
[www.premium-aluminium.co.uk/5083](http://www.premium-aluminium.co.uk/5083)

via smartphone / tablet:



PERFECTION !

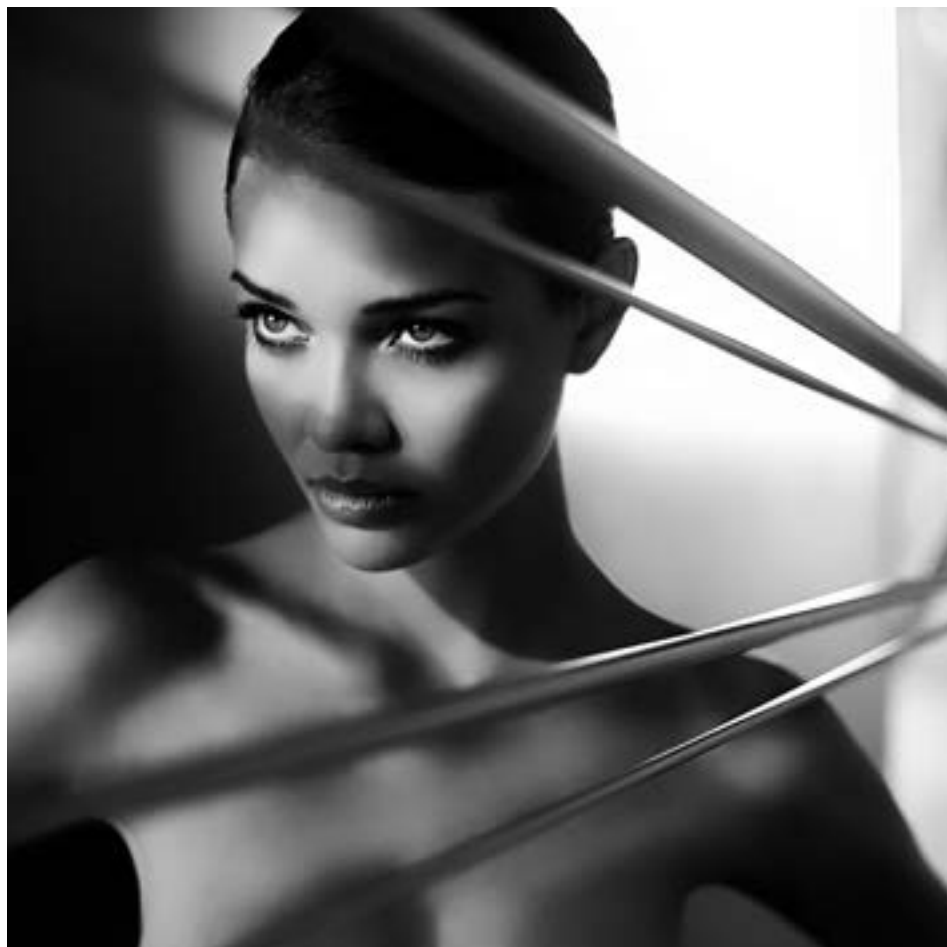


## PREMIUM EN AW-5083 – EN AW-AMg4.5Mn0.7 (AlMg4.5Mn / 3.3547)

Round aluminium [RA]  
Specification: pressed

Ø [mm]	LENGTH [mm]	
	500	1,000
Available dimensions [•]		
15	•	•
16	•	•
20	•	•
25	•	•
30	•	•
35	•	•
40	•	•
45	•	•
50	•	•
55	•	•
60	•	•
65		•
70		•
75		•
80		•
90		•
100		•

Larger diameters Ø and different lengths (e.g. round blanks) available on request!



### Technical properties

This universal alloy has a very high corrosion resistance and can be used effectively in seawater. The material is stress-free and therefore easier to machine. Furthermore, EN AW-5083 is very well suited for hard anodising, technical anodising and protective coatings.

Tensile strength (on delivery): approx. 275-315 N/mm².

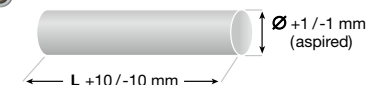


### Applications

Apparatus engineering, container and vehicle construction, refrigeration technology, naval construction, laminating tools, blow moulds, injection moulds, tool making, mould- and model making.



### Tolerances



### Standard values

Delivery condition: maximum 100 HB  
Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
0	0	0	0.4	4.0	0.05	0	0
0.4	0.4	0.1	1.0	4.9	0.25	0.25	0.15



### If you need customised dimensions -

Any dimension available in different lengths (e.g. round blanks).

On request - according to your needs!



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### Direct access to our online shop

[www.premium-aluminium.co.uk/5083-4-A](http://www.premium-aluminium.co.uk/5083-4-A)



### EN AW-5083 – all at a glance!

Datasheets and online shop:

[www.premium-aluminium.co.uk/5083](http://www.premium-aluminium.co.uk/5083)

via smartphone/tablet:



## PREMIUM EN AW-5754 – EN AW-AMg3 (AlMg3 / 3.3535)

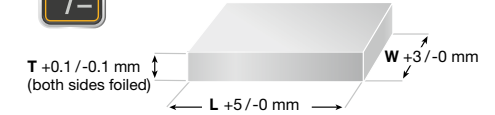
ALU-Präz® 500 [ALU]

Length: 500 mm

	THICKNESS [mm]													
	5.0	6.0	8.0	10.0	12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	70.0	80.0
WIDTH	Available dimensions [mm]													
33	■	■	■	■	■	■	■	■	■					
43	■	■	■	■	■	■	■	■	■	■				
53	■	■	■	■	■	■	■	■	■	■	■			
63	■	■	■	■	■	■	■	■	■	■	■	■		
73	■	■	■	■	■	■	■	■	■	■	■	■	■	
83	■	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■	■	■



### Tolerances



### Standard values

Delivery condition: maximum 50 HB

Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Mn+Cr
0	0	0	0	2.6	0	0	0	0.1
0.4	0.4	0.1	0.5	3.6	0.3	0.2	0.15	0.6



### If you need customised dimensions -

Any dimension available in different heights, widths and lengths.

On request - according to your needs!



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[www.premium-aluminium.co.uk/5754-1-A](http://www.premium-aluminium.co.uk/5754-1-A)



### Technical properties

The alloy EN AW-5754 (here cast version) has a medium strength even in soft condition. The very good corrosion resistance, especially against seawater, should be emphasized. Furthermore, it is easily weldable and suitable for use at an elevated workpiece temperature.

Tensile strength (on delivery): approx. 190-240 N/mm².



### Applications

Vehicle construction, naval construction, metal- and container construction, apparatus engineering, architecture, food industry, mechanical engineering.



### EN AW-5754 – all at a glance!

Datasheets and online shop:

[www.premium-aluminium.co.uk/5754](http://www.premium-aluminium.co.uk/5754)

via smartphone/tablet:





## PREMIUM EN AW-5754 – EN AW-AMg3 (AMg3 / 3.3535)

ALU-Präz® 1,000 [ALU]

Length: 1,000 mm

	THICKNESS [mm]													
	5.0	6.0	8.0	10.0	12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	70.0	80.0
WIDTH	Available dimensions [mm]													
33	■	■	■	■	■	■	■	■	■					
43	■	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■					
63	■	■	■	■	■	■	■	■	■					
73	■	■	■	■	■	■	■	■	■					
83	■	■	■	■	■	■	■	■	■					
93	■	■	■	■	■	■	■	■	■					
103	■	■	■	■	■	■	■	■	■					
123	■	■	■	■	■	■	■	■	■					
143	■	■	■	■	■	■	■	■	■					
153	■	■	■	■	■	■	■	■	■					
163	■	■	■	■	■	■	■	■	■					
183	■	■	■	■	■	■	■	■	■					
203	■	■	■	■	■	■	■	■	■					
223	■	■	■	■	■	■	■	■	■					
243	■	■	■	■	■	■	■	■	■					
253	■	■	■	■	■	■	■	■	■					
263	■	■	■	■	■	■	■	■	■					
283	■	■	■	■	■	■	■	■	■					
303	■	■	■	■	■	■	■	■	■					
323	■	■	■	■	■	■	■	■	■					
343	■	■	■	■	■	■	■	■	■					
353	■	■	■	■	■	■	■	■	■					
363	■	■	■	■	■	■	■	■	■					
383	■	■	■	■	■	■	■	■	■					
403	■	■	■	■	■	■	■	■	■					
423	■	■	■	■	■	■	■	■	■					
443	■	■	■	■	■	■	■	■	■					
453	■	■	■	■	■	■	■	■	■					
463	■	■	■	■	■	■	■	■	■					
483	■	■	■	■	■	■	■	■	■					
503	■	■	■	■	■	■	■	■	■					



### Technical properties

The alloy EN AW-5754 (here cast version) has a medium strength even in soft condition. The very good corrosion resistance, especially against seawater, should be emphasized. Furthermore, it is easily weldable and suitable for use at an elevated workpiece temperature.

Tensile strength (on delivery): approx. 190-240 N/mm².

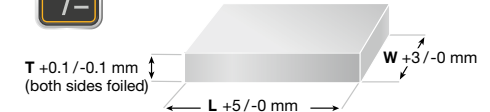


### Applications

Vehicle construction, naval construction, metal- and container construction, apparatus engineering, architecture, food industry, mechanical engineering.



### Tolerances



### Standard values

Delivery condition: maximum 50 HB

Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Mn+Cr
0	0	0	0	2.6	0	0	0	0.1
0.4	0.4	0.1	0.5	3.6	0.3	0.2	0.15	0.6



### If you need customised dimensions -

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### EN AW-5754 – all at a glance!

Datasheets and online shop:

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via smartphone/tablet:





## PREMIUM EN AW-5754 – EN AW-AMg3 (AlMg3 / 3.3535)

Round aluminium [RA]  
Specification: pressed

Ø [mm]	LENGTH [mm]	
	500	1,000
	Available dimensions [•]	
20	•	•
25	•	•
30	•	•
35	•	•
40	•	•
45	•	•
50	•	•
55	•	•
60	•	•
65		•
70		•
75		•
80		•
85		•
90		•
100		•

Larger diameters Ø and different lengths (e.g. round blanks) available on request!



### Technical properties

The alloy EN AW-5754 has a medium strength even in soft condition. The very good corrosion resistance, especially against seawater, should be emphasized. Furthermore, it is easily weldable and suitable for use at an elevated workpiece temperature.  
Tensile strength (on delivery): approx. 190-240 N/mm².

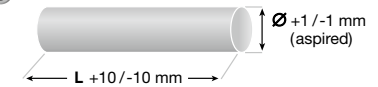


### Applications

Vehicle construction, naval construction, metal- and container construction, apparatus engineering, architecture, food industry, mechanical engineering.



### Tolerances



### Standard values

Delivery condition: maximum 50 HB  
Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Mn+Cr
0	0	0	0	2.6	0	0	0	0.1
0.4	0.4	0.1	0.5	3.6	0.3	0.2	0.15	0.6



### If you need customised dimensions -

Any dimension available in different lengths (e.g. round blanks).  
On request - according to your needs!



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### EN AW-5754 – all at a glance!

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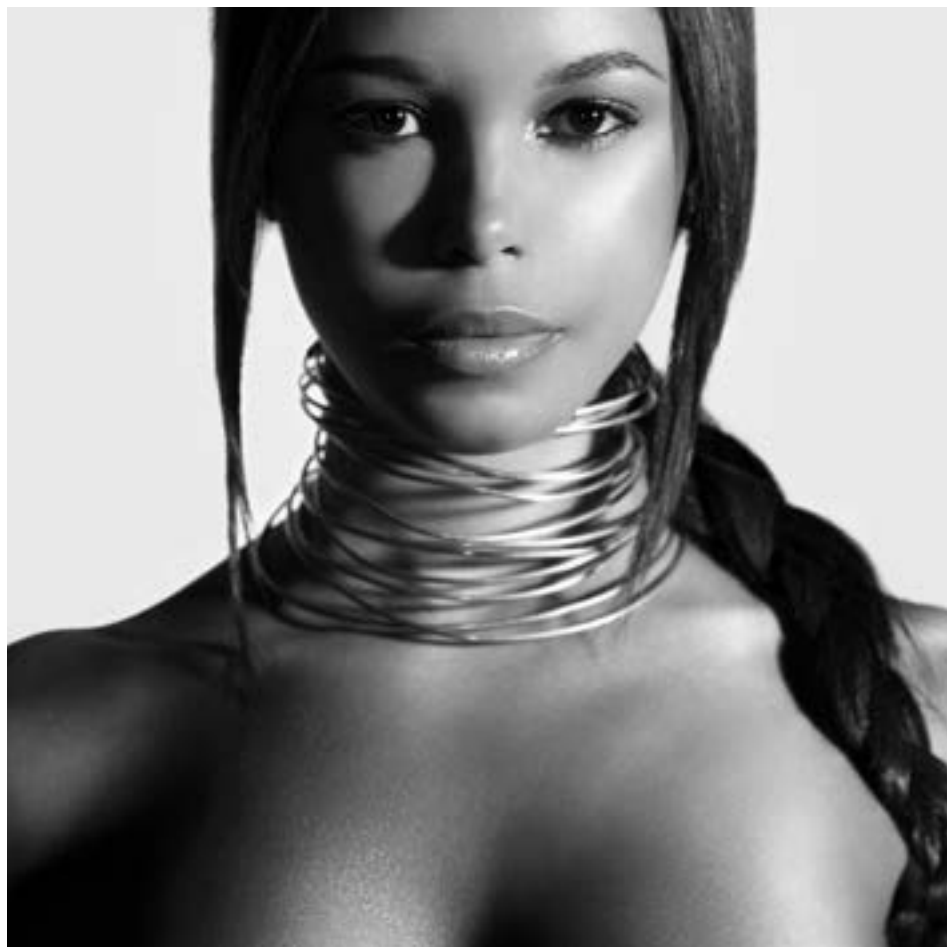
## PREMIUM EN AW-6060 – EN AW-AMgSi (AlMgSi0.5 / 3.3206)

Round aluminium [RA]

Specification: pressed

Ø [mm]	LENGTH [mm]	
	500	1,000
Available dimensions [•]		
4	•	•
5	•	•
6	•	•
8	•	•
10	•	•
12	•	•
15	•	•
20	•	•
25	•	•
30	•	•
35	•	•
40	•	•
45	•	•
50	•	•
55	•	•
60	•	•
70		•
80		•
90		•
100		•

Larger diameters Ø and different lengths (e.g. round blanks) available on request!



### Technical properties

The alloy EN AW-6060 is a widely used alloy in the extrusion sector. The corrosion resistance, with respect to seawater and normal environment, is very good. Further it is easily weldable and has excellent properties for anodising, especially in the decorative area.

Tensile strength (on delivery): approx. 215-260 N/mm².

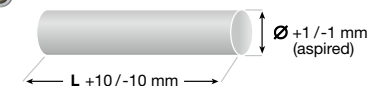


### Applications

Windows and doors, metal construction, air conditioning technology, exhibition construction, interior design, textile industry, household articles, screws, decoration, architecture, pipelines and profiles.



### Tolerances



### Standard values

Delivery condition: maximum 80 HB  
Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
0.3	0.1	0	0	0.35	0	0	0
0.6	0.3	0.1	1.0	0.6	0.05	0.15	0.1



### If you need customised dimensions -

Any dimension available in different lengths (e.g. round blanks).

On request - according to your needs!



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via smartphone/tablet:



## PREMIUM EN AW-6082 – EN AW-AlMgSi1MgMn (AlMgSi1 / 3.2315)

### ALU-Präz® 500 [ALU]

Length: 500 mm

	THICKNESS [mm]													
	6.0	8.0	10.0	12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	70.0	80.0	
WIDTH	Available dimensions [mm]													
33	■	■	■	■	■	■	■	■						
43	■	■	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■	■	
103	■	■	■	■	■	■	■	■	■	■	■	■	■	
123	■	■	■	■	■	■	■	■	■	■	■	■	■	
143	■	■	■	■	■	■	■	■	■	■	■	■	■	
153	■	■	■	■	■	■	■	■	■	■	■	■	■	
163	■	■	■	■	■	■	■	■	■	■	■	■	■	
183	■	■	■	■	■	■	■	■	■	■	■	■	■	
203	■	■	■	■	■	■	■	■	■	■	■	■	■	
223	■	■	■	■	■	■	■	■	■	■	■	■	■	
243	■	■	■	■	■	■	■	■	■	■	■	■	■	
253	■	■	■	■	■	■	■	■	■	■	■	■	■	
263	■	■	■	■	■	■	■	■	■	■	■	■	■	
283	■	■	■	■	■	■	■	■	■	■	■	■	■	
303	■	■	■	■	■	■	■	■	■	■	■	■	■	
323	■	■	■	■	■	■	■	■	■	■	■	■	■	
343	■	■	■	■	■	■	■	■	■	■	■	■	■	
353	■	■	■	■	■	■	■	■	■	■	■	■	■	
363	■	■	■	■	■	■	■	■	■	■	■	■	■	
383	■	■	■	■	■	■	■	■	■	■	■	■	■	
403	■	■	■	■	■	■	■	■	■	■	■	■	■	
423	■	■	■	■	■	■	■	■	■	■	■	■	■	
443	■	■	■	■	■	■	■	■	■	■	■	■	■	
453	■	■	■	■	■	■	■	■	■	■	■	■	■	
463	■	■	■	■	■	■	■	■	■	■	■	■	■	
483	■	■	■	■	■	■	■	■	■	■	■	■	■	
503	■	■	■	■	■	■	■	■	■	■	■	■	■	



#### Tolerances

T +0.1 / -0.1 mm  
(both sides foiled)

W +3 / -0 mm

L +5 / -0 mm



#### Standard values

Delivery condition: maximum 105 HB  
Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
0.7	0	0	0.4	0.6	0	0	0
1.3	0.5	0.1	1.0	1.2	0.25	0.2	0.1



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#### Technical properties

The alloy EN AW-6082 is one of the most frequently used age-hardenable wrought aluminium grades. Depending on the application, medium to high strength can be achieved with this alloy. In addition, this material has a high corrosion resistance and is very easy to weld and polish.

Tensile strength (on delivery): approx. 300-350 N/mm².



#### Applications

Food industry, decoration, vehicle construction, naval construction, railway vehicles, boiler and tank construction, offshore, aviation and aerospace, defence technology.



#### EN AW-6082 – all at a glance!

Datasheets and online shop:

[www.premium-aluminium.co.uk/6082](http://www.premium-aluminium.co.uk/6082)

via smartphone / tablet:





# PREMIUM EN AW-6082 – EN AW- $\text{AlSi1MgMn}$ ( $\text{AlMgSi1 / 3.2315}$ )

ALU-Präz® 1,000 [ALU]

Length: 1,000 mm

WIDTH	THICKNESS [mm]												
	6.0	8.0	10.0	12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	70.0	80.0
Available dimensions [mm]													
33	■	■	■	■	■	■	■	■					
43	■	■	■	■	■	■	■	■	■				
53	■	■	■	■	■	■	■	■	■	■			
63	■	■	■	■	■	■	■	■	■	■	■		
73	■	■	■	■	■	■	■	■	■	■	■	■	
83	■	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■	■



## Technical properties

The alloy EN AW-6082 is one of the most frequently used age-hardenable wrought aluminium grades. Depending on the application, medium to high strength can be achieved with this alloy. In addition, this material has a high corrosion resistance and is very easy to weld and polish.

Tensile strength (on delivery): approx. 300-350 N/mm².



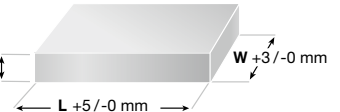
## Applications

Food industry, decoration, vehicle construction, naval construction, railway vehicles, boiler and tank construction, offshore, aviation and aerospace, defence technology.



## Tolerances

T +0.1 / -0.1 mm  
(both sides foiled)



## Standard values

Delivery condition: maximum 105 HB

Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
0.7	0	0	0.4	0.6	0	0	0
1.3	0.5	0.1	1.0	1.2	0.25	0.2	0.1



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## EN AW-6082 – all at a glance!

Datasheets and online shop:

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via smartphone/tablet:





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## PREMIUM EN AW-6082 – EN AW- $\text{AlSi1MgMn}$ ( $\text{AlMgSi1 / 3.2315}$ )

Precision round aluminium [PRA]

Specification: drawn

Ø [mm]	LENGTH [mm]	
	500	1,000
Available dimensions [•]		
2.0	•	•
6.0	•	•
8.0	•	•
10.0	•	•
12.0	•	•
15.0	•	•
16.0	•	•
18.0	•	•
20.0	•	•
22.0	•	•
24.0	•	•
25.0	•	•
28.0	•	•
30.0	•	•
32.0	•	•
35.0	•	•
38.0	•	•
40.0	•	•
42.0	•	•
45.0	•	•
50.0	•	•
55.0	•	•
60.0	•	•



### Technical properties

The alloy EN AW-6082 is one of the most frequently used age-hardenable wrought aluminium grades. Depending on the application, medium to high strength can be achieved with this alloy. In addition, this material has a high corrosion resistance and is very easy to weld and polish.

Tensile strength (on delivery): approx. 300-350 N/mm<sup>2</sup>.

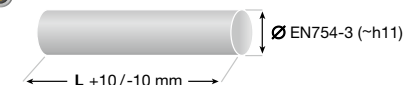


### Applications

Food industry, decoration, vehicle construction, naval construction, railway vehicles, boiler and tank construction, offshore, aviation and aerospace, defence technology.



### Tolerances



### Standard values

Delivery condition: maximum 105 HB

Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
0.7	0	0	0.4	0.6	0	0	0
1.3	0.5	0.1	1.0	1.2	0.25	0.2	0.1



### If you need customised dimensions -

Any dimension available in different lengths (e.g. round blanks).

On request - according to your needs!



### Contact us

T: +44 (0) 121 368 0910

E: sales@abrams-industries.co.uk



### Direct access to our online shop

[www.premium-aluminium.co.uk/6082-3-A](http://www.premium-aluminium.co.uk/6082-3-A)



### EN AW-6082 – all at a glance!

Datasheets and online shop:

[www.premium-aluminium.co.uk/6082](http://www.premium-aluminium.co.uk/6082)

via smartphone/tablet:



PASSION !



## PREMIUM EN AW-6082 – EN AW- $\text{AlSi1MgMn}$ ( $\text{AlMgSi1 / 3.2315}$ )

Round aluminium [RA]

Specification: pressed

Ø [mm]	LENGTH [mm]	
	500	1,000
8	●	●
10	●	●
12	●	●
15	●	●
16	●	●
18	●	●
20	●	●
25	●	●
28	●	●
30	●	●
32	●	●
35	●	●
38	●	●
40	●	●
42	●	●
45	●	●
50	●	●
55	●	●
60	●	●
65		●
70		●
75		●
80		●
90		●
100		●

Larger diameters Ø and different lengths (e.g. round blanks) available on request!



### Technical properties

The alloy EN AW-6082 is one of the most frequently used age-hardenable wrought aluminium grades. Depending on the application, medium to high strength can be achieved with this alloy. In addition, this material has a high corrosion resistance and is very easy to weld and polish.

Tensile strength (on delivery): approx. 300-350 N/mm².

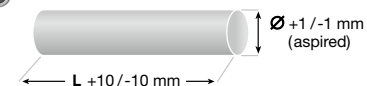


### Applications

Food industry, decoration, vehicle construction, naval construction, railway vehicles, boiler and tank construction, offshore, aviation and aerospace, defence technology.



### Tolerances



### Standard values

Delivery condition: maximum 105 HB

Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
0.7	0	0	0.4	0.6	0	0	0
1.3	0.5	0.1	1.0	1.2	0.25	0.2	0.1



### If you need customised dimensions -

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On request - according to your needs!



### Contact us

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E: sales@abrams-industries.co.uk



### Direct access to our online shop

[www.premium-aluminium.co.uk/6082-4-A](http://www.premium-aluminium.co.uk/6082-4-A)



### EN AW-6082 – all at a glance!

Datasheets and online shop:

[www.premium-aluminium.co.uk/6082](http://www.premium-aluminium.co.uk/6082)

via smartphone/tablet:





## PREMIUM EN AW-7021 – EN AW-AlZn5.5Mg1.5

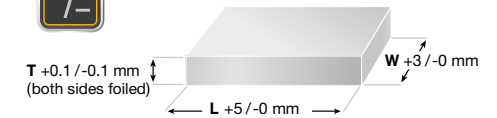
ALU-Präz® 500 [ALU]

Length: 500 mm

	THICKNESS [mm]											
	10.0	12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	70.0	80.0	
WIDTH	Available dimensions [mm]											
33	■	■	■	■	■	■						
43	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■



### Tolerances



### Standard values

Delivery condition: maximum 120 HB

Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
0	0	0	0	1.2	0.08	5.0	0
0.25	0.4	0.25	0.1	1.8	0.18	6.0	0.1



### If you need customised dimensions -

Any dimension available in different heights, widths and lengths.

On request - according to your needs!



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E: sales@abrams-industries.co.uk



### Direct access to our online shop

[www.premium-aluminium.co.uk/7021-1-A](http://www.premium-aluminium.co.uk/7021-1-A)



### Technical properties

This high strength cast aluminium plate is particularly characterised due to its very good dimensional stability which is combined with very good machinability and is both technically and hard anodisable. In addition the material is weldable and has a good corrosion resistance.

Tensile strength (on delivery): approx. 320-380 N/mm².



### Applications

Tool making, mould making, model making, transfer plates, base plates, table tops, mounting plates, mechanical parts, mechanical engineering, jigs and fixtures, injection moulding tools, defence technology, press components.



### EN AW-7021 – all at a glance!

Datasheets and online shop:

[www.premium-aluminium.co.uk/7021](http://www.premium-aluminium.co.uk/7021)

via smartphone / tablet:





## PREMIUM EN AW-7021 – EN AW-AlZn5.5Mg1.5

ALU-Präz® 1,000 [ALU]

Length: 1,000 mm

	THICKNESS [mm]											
	10.0	12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	70.0	80.0	
WIDTH	Available dimensions [mm]											
33	■	■	■	■	■	■						
43	■	■	■	■	■	■	■					
53	■	■	■	■	■	■	■	■				
63	■	■	■	■	■	■	■	■	■			
73	■	■	■	■	■	■	■	■	■	■		
83	■	■	■	■	■	■	■	■	■	■	■	
93	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■



### Technical properties

This high strength cast aluminium plate is particularly characterised due to its very good dimensional stability which is combined with very good machinability and is both technically and hard anodisable. In addition the material is weldable and has a good corrosion resistance.

Tensile strength (on delivery): approx. 320-380 N/mm².

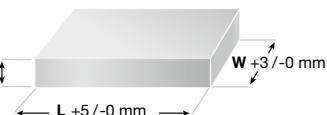


Tool making, mould making, model making, transfer plates, base plates, table tops, mounting plates, mechanical parts, mechanical engineering, jigs and fixtures, injection moulding tools, defence technology, press components.



### Tolerances

T +0.1 / -0.1 mm  
(both sides foiled)



### Standard values

Delivery condition: maximum 120 HB

Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
0	0	0	0	1.2	0.08	5.0	0
0.25	0.4	0.25	0.1	1.8	0.18	6.0	0.1



### If you need customised dimensions -

Any dimension available in different heights, widths and lengths.

On request - according to your needs!



### Contact us

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E: sales@abrams-industries.co.uk



### Direct access to our online shop

[www.premium-aluminium.co.uk/7021-2-A](http://www.premium-aluminium.co.uk/7021-2-A)



### EN AW-7021 – all at a glance!

Datasheets and online shop:

[www.premium-aluminium.co.uk/7021](http://www.premium-aluminium.co.uk/7021)

via smartphone/tablet:



## PREMIUM EN AW-7075 – EN AW-AIZn5.5MgCu (AlZnMgCu1.5 / 3.4365)

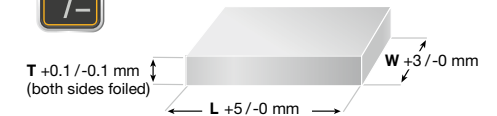
ALU-Präz® 500 [ALU]

Length: 500 mm

	THICKNESS [mm]											
	8.0	10.0	12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	70.0	80.0
WIDTH	Available dimensions [mm]											
33	■	■	■	■	■	■	■					
43	■	■	■	■	■	■	■	■				
53	■	■	■	■	■	■	■	■	■			
63	■	■	■	■	■	■	■	■	■	■		
73	■	■	■	■	■	■	■	■	■	■	■	
83	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■



### Tolerances



### Standard values

Delivery condition: maximum 140 HB

Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
0	0	1.2	0	2.1	0.18	5.1	0
0.4	0.5	2.0	0.3	2.9	0.28	6.1	0.2



### If you need customised dimensions -

Any dimension available in different heights, widths and lengths.

On request - according to your needs!



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E: sales@abrams-industries.co.uk



### Direct access to our online shop

[www.premium-aluminium.co.uk/7075-1-A](http://www.premium-aluminium.co.uk/7075-1-A)



### Technical properties

This hardenable material is characterized by its good dimensional stability and high strength. To achieve the potential of strength a heat treatment such as solution heat treatment and subsequently artificial ageing is recommended. Tensile strength (on delivery): approx. 360-540 N/mm².



### Applications

Aviation, mechanical engineering, tool making, jigs and fixtures, mould making, machine casing, reference plates, robotic arms, defence technology.



### EN AW-7075 – all at a glance!

Datasheets and online shop:

[www.premium-aluminium.co.uk/7075](http://www.premium-aluminium.co.uk/7075)

via smartphone / tablet:



# PREMIUM EN AW-7075 – EN AW-AlZn5.5MgCu (AlZnMgCu1.5 / 3.4365)

ALU-Präz® 1,000 [ALU]

Length: 1,000 mm

	THICKNESS [mm]											
	8.0	10.0	12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	70.0	80.0
WIDTH	Available dimensions [mm]											
33	■	■	■	■	■	■	■					
43	■	■	■	■	■	■	■	■				
53	■	■	■	■	■	■	■	■	■			
63	■	■	■	■	■	■	■	■	■	■		
73	■	■	■	■	■	■	■	■	■	■	■	
83	■	■	■	■	■	■	■	■	■	■	■	■
93	■	■	■	■	■	■	■	■	■	■	■	■
103	■	■	■	■	■	■	■	■	■	■	■	■
123	■	■	■	■	■	■	■	■	■	■	■	■
143	■	■	■	■	■	■	■	■	■	■	■	■
153	■	■	■	■	■	■	■	■	■	■	■	■
163	■	■	■	■	■	■	■	■	■	■	■	■
183	■	■	■	■	■	■	■	■	■	■	■	■
203	■	■	■	■	■	■	■	■	■	■	■	■
223	■	■	■	■	■	■	■	■	■	■	■	■
243	■	■	■	■	■	■	■	■	■	■	■	■
253	■	■	■	■	■	■	■	■	■	■	■	■
263	■	■	■	■	■	■	■	■	■	■	■	■
283	■	■	■	■	■	■	■	■	■	■	■	■
303	■	■	■	■	■	■	■	■	■	■	■	■
323	■	■	■	■	■	■	■	■	■	■	■	■
343	■	■	■	■	■	■	■	■	■	■	■	■
353	■	■	■	■	■	■	■	■	■	■	■	■
363	■	■	■	■	■	■	■	■	■	■	■	■
383	■	■	■	■	■	■	■	■	■	■	■	■
403	■	■	■	■	■	■	■	■	■	■	■	■
423	■	■	■	■	■	■	■	■	■	■	■	■
443	■	■	■	■	■	■	■	■	■	■	■	■
453	■	■	■	■	■	■	■	■	■	■	■	■
463	■	■	■	■	■	■	■	■	■	■	■	■
483	■	■	■	■	■	■	■	■	■	■	■	■
503	■	■	■	■	■	■	■	■	■	■	■	■



## Technical properties

This hardenable material is characterized by its good dimensional stability and high strength. To achieve the potential of strength a heat treatment such as solution heat treatment and subsequently artificial ageing is recommended.  
Tensile strength (on delivery): approx. 360-540 N/mm².

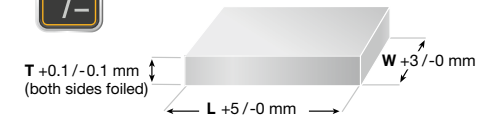


## Applications

Aviation, mechanical engineering, tool making, jigs and fixtures, mould making, machine casing, reference plates, robotic arms, defence technology.



## Tolerances



## Standard values

Delivery condition: maximum 140 HB  
Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
0	0	1.2	0	2.1	0.18	5.1	0
0.4	0.5	2.0	0.3	2.9	0.28	6.1	0.2



## If you need customised dimensions -

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On request - according to your needs!



## Contact us

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E: sales@abrams-industries.co.uk



## Direct access to our online shop

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## EN AW-7075 – all at a glance!

Datasheets and online shop:  
[www.premium-aluminium.co.uk/7075](http://www.premium-aluminium.co.uk/7075)

via smartphone/tablet:





HEART AND SOUL IN ALU !

## PREMIUM EN AW-7075 – EN AW-AlZn5.5MgCu (AlZnMgCu1.5 / 3.4365)

Round aluminium [RA]  
Specification: pressed

Ø [mm]	LENGTH [mm]	
	500	1,000
8	●	●
10	●	●
12	●	●
15	●	●
16	●	●
18	●	●
20	●	●
22	●	●
25	●	●
30	●	●
35	●	●
40	●	●
42	●	●
45	●	●
50	●	●
55	●	●
60	●	●
65		●
70		●
75		●
80		●
90		●
100		●

Larger diameters Ø and different lengths (e.g. round blanks) available on request!



### Technical properties

This hardenable material is characterized by its good dimensional stability and high strength. To achieve the potential of strength a heat treatment such as solution heat treatment and subsequently artificial ageing is recommended. Tensile strength (on delivery): approx. 360-540 N/mm².

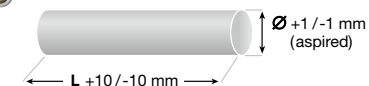


### Applications

Aviation, mechanical engineering, tool making, jigs and fixtures, mould making, machine casing, reference plates, robotic arms, defence technology.



### Tolerances



### Standard values

Delivery condition: maximum 140 HB  
Chemical composition:

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
0	0	1.2	0	2.1	0.18	5.1	0
0.4	0.5	2.0	0.3	2.9	0.28	6.1	0.2



### If you need customised dimensions -

Any dimension available in different lengths (e.g. round blanks).  
On request - according to your needs!



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### EN AW-7075 – all at a glance!

Datasheets and online shop:  
[www.premium-aluminium.co.uk/7075](http://www.premium-aluminium.co.uk/7075)


via smartphone/tablet:




## WEIGHT TABLES !

Weight table for flat, square and round aluminium (in kg with a nominal dimension of 1,000 mm in length).

Also see [www.premium-aluminium.co.uk/weights](http://www.premium-aluminium.co.uk/weights)

	THICKNESS [mm]													
	5.0	6.0	8.0	10.0	12.0	15.0	20.0	25.0	30.0	40.0	50.0	60.0	70.0	80.0
WIDTH	Weight [kg/m]													
33	0.5	0.6	0.8	1.0	1.2	1.5	2.0	2.5	2.9					
43	0.6	0.8	1.0	1.3	1.5	1.9	2.5	3.1	3.8	5.0				
53	0.8	0.9	1.2	1.5	1.8	2.3	3.1	3.8	4.6	6.1	7.6			
63	0.9	1.1	1.4	1.8	2.2	2.7	3.6	4.5	5.4	7.2	9.0	10.8		
73	1.0	1.2	1.7	2.1	2.5	3.1	4.1	5.2	6.2	8.3	10.3	12.4	14.5	
83	1.2	1.4	1.9	2.3	2.8	3.5	4.7	5.9	7.0	9.4	11.7	14.1	16.4	18.7
93	1.3	1.6	2.1	2.6	3.1	3.9	5.2	6.5	7.8	10.5	13.1	15.7	18.3	20.9
103	1.4	1.7	2.3	2.9	3.5	4.3	5.8	7.2	8.7	11.5	14.4	17.3	20.2	23.1
123	1.7	2.1	2.7	3.4	4.1	5.1	6.9	8.6	10.3	13.7	17.2	20.6	24.0	27.5
143	2.0	2.4	3.2	4.0	4.8	6.0	8.0	9.9	11.9	15.9	19.9	23.9	27.8	31.8
153	2.1	2.5	3.4	4.2	5.1	6.4	8.5	10.6	12.7	17.0	21.2	25.5	29.7	34.0
163	2.3	2.7	3.6	4.5	5.4	6.8	9.0	11.3	13.6	18.1	22.6	27.1	31.6	36.2
183	2.5	3.0	4.1	5.1	6.1	7.6	10.1	12.7	15.2	20.3	25.3	30.4	35.5	40.5
203	2.8	3.4	4.5	5.6	6.7	8.4	11.2	14.0	16.8	22.4	28.1	33.7	39.3	44.9
223	3.1	3.7	4.9	6.2	7.4	9.2	12.3	15.4	18.5	24.6	30.8	36.9	43.1	49.2
243	3.3	4.0	5.4	6.7	8.0	10.0	13.4	16.7	20.1	26.8	33.5	40.2	46.9	53.6
253	3.5	4.2	5.6	7.0	8.4	10.5	13.9	17.4	20.9	27.9	34.9	41.8	48.8	55.8
263	3.6	4.3	5.8	7.2	8.7	10.9	14.5	18.1	21.7	29.0	36.2	43.5	50.7	58.0
283	3.9	4.7	6.2	7.8	9.3	11.7	15.6	19.5	23.4	31.2	38.9	46.7	54.5	62.3
303	4.2	5.0	6.7	8.3	10.0	12.5	16.7	20.8	25.0	33.3	41.7	50.0	58.3	66.7
323	4.4	5.3	7.1	8.9	10.7	13.3	17.8	22.2	26.6	35.5	44.4	53.3	62.2	71.0
343	4.7	5.7	7.5	9.4	11.3	14.1	18.8	23.6	28.3	37.7	47.1	56.5	66.0	75.4
353	4.8	5.8	7.8	9.7	11.6	14.5	19.4	24.2	29.1	38.8	48.5	58.2	67.9	77.6
363	5.0	6.0	8.0	10.0	12.0	15.0	19.9	24.9	29.9	39.9	49.8	59.8	69.8	79.7
383	5.3	6.3	8.4	10.5	12.6	15.8	21.0	26.3	31.5	42.1	52.6	63.1	73.6	84.1
403	5.5	6.6	8.8	11.1	13.3	16.6	22.1	27.6	33.2	44.2	55.3	66.3	77.4	88.5
423	5.8	7.0	9.3	11.6	13.9	17.4	23.2	29.0	34.8	46.4	58.0	69.6	81.2	92.8
443	6.1	7.3	9.7	12.1	14.6	18.2	24.3	30.4	36.4	48.6	60.7	72.9	85.0	97.2
453	6.2	7.5	9.9	12.4	14.9	18.6	24.8	31.0	37.3	49.7	62.1	74.5	86.9	99.4
463	6.3	7.6	10.2	12.7	15.2	19.0	25.4	31.7	38.1	50.8	63.5	76.2	88.8	101.5
483	6.6	7.9	10.6	13.2	15.9	19.9	26.5	33.1	39.7	52.9	66.2	79.4	92.7	105.9
503	6.9	8.3	11.0	13.8	16.5	20.7	27.6	34.5	41.3	55.1	68.9	82.7	96.5	110.2

	DIAMETER Ø [mm]													
	3	5	10	15	20	25	30	40	50	60	70	80	90	100
Weight [kg/m]														
	0.02	0.05	0.2	0.5	0.9	1.3	1.9	3.4	5.3	7.7	10.4	13.6	17.2	21.3
»														
Weight [kg/m]														
	30.6	41.7	54.5	69.0	85.1	133.0	191.6	260.7	340.5	431.0	532.1	643.8	766.2	899.3



## TRANSPARENCY IN ALL DETAILS !

### Information regarding our portfolio (valid as of August 2024):

This product catalogue gives you an overview of our 8 aluminium grades with 4,307 dimensions.

For our current prices please refer to our online shop under [www.premium-aluminium.co.uk/shop](http://www.premium-aluminium.co.uk/shop).

### Minimum order value:

Any quantity - however small - there is no minimum order value for you!

### Packaging:

All ALU-PRÄZ® articles are delivered foiled on both sides of the thickness.

All products are carefully packed.

### Handling and Delivery Fees:

Consignments of up to 40kg are dispatched via parcel.

Consignments above 40kg are dispatched via freight forwarders. At ABRAMS PREMIUM ALUMINIUM®, we base all of our shipping costs on the principle that they are as transparent and comprehensible for our clients as possible.

Our current shipping costs are available on request: [sales@abrams-industries.eu](mailto:sales@abrams-industries.eu)

For larger quantities please contact us.

For deliveries outside the EU, deliveries on Saturdays or express delivery services (guaranteed date and time) please contact us.

### Delivery Time:

Standard products defined in our programme will be delivered as quickly as possible from stock. Individual custom requests will be manufactured and delivered on a short term basis. The standard delivery time is 3-5 working days.

### Condition of payment:

Within 14 days net from invoice (subject to a positive credit screening).

### ABRAMS PREMIUM ALUMINIUM®

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ABRAMS PREMIUM ALUMINIUM® Shop	<a href="http://www.premium-aluminium.co.uk/shop">www.premium-aluminium.co.uk/shop</a>
Aluminium grades	<a href="http://www.premium-aluminium.co.uk/alloys">www.premium-aluminium.co.uk/alloys</a>
Aluminium specifications	<a href="http://www.premium-aluminium.co.uk/specifications">www.premium-aluminium.co.uk/specifications</a>
Aluminium weight table (flat- and round)	<a href="http://www.premium-aluminium.co.uk/weights">www.premium-aluminium.co.uk/weights</a>
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The price list gives an overview of the general attributes and possible applications of aluminium which will support your choice of product depending on the various applications of the products, a guarantee of specific attributes and values must be confirmed contractually.

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**PREMIUM EN AW-2007**

EN AW-AlCu4PbMgMn  
AlCuMgPb  
3.1645

**PREMIUM EN AW-5083**

EN AW-AlMg4.5Mn0.7  
AlMg4.5Mn  
3.3547

**PREMIUM EN AW-6060**

EN AW-AlMgSi  
AlMgSi0.5  
3.3206

**PREMIUM EN AW-7021**

EN AW-AlZn5.5Mg1.5  
-  
-

**PREMIUM EN AW-2011**

EN AW-AlCu6BiPb  
AlCuBiPb  
3.1655

**PREMIUM EN AW-5754**

EN AW-AlMg3  
AlMg3  
3.3535

**PREMIUM EN AW-6082**

EN AW-AlSi1MgMn  
AlMgSi1  
3.2315

**PREMIUM EN AW-7075**

EN AW-AlZn5.5MgCu  
AlZnMgCu1.5  
3.4365

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