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SPECIALISTI IN RICERCA E CERTIFICAZIONE DAL 1959

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RICONOSCIMENTI UFFICIALI:

- MINISTERO LAVORI PUBBLICI: Legge 108/71 con D.M. 27/11/82 n. 22913 "Prove sui materiali da costruzione".
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: D.M. 20/11/83 "Certificazione CE per le unità da dipinto".
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: D.M. 31/10/81 "Certificazione CEE delle emissioni sonore di macchine da cantiere".
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: D.L. 27/01/82 N. 135 "Certificazione CEE delle emissioni sonore di macchine di ministero terra".
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: D.M. 06/07/83 "Certificazione CEE concernente la sicurezza dei giocattoli".
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: D.M. 30/07/87 "Certificazioni ed attestati di conformità CEE per il rendimento delle caldaie ad acqua calda alimentate con combustibili liquidi o gassosi".
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: Notaio n. 7578/80 del 15/12/88 "Certificazione CEE per gli apparecchi a gas".
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO e MINISTERO LAVORO E PREVIDENZA SOCIALE: D.M. 09/07/83 "Certificazione CEE in materia di recipienti semplici a pressione".
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO e MINISTERO LAVORO E PREVIDENZA SOCIALE: D.M. 04/08/84 "Certificazione CEE sulle macchine".
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: "Incarichi di verifica della sicurezza e conformità dei prototipi nell'ambito della sorveglianza sul mercato e tutela del consumatore".
- MINISTERO INDUSTRIA COMMERCIO ARTIGIANATO: D.M. 02/04/88 "Rilascio di attestazioni di conformità delle caratteristiche e prestazioni energetiche dei componenti degli edifici e degli impianti".
- MINISTERO INTERNO: Legge 81/84 e D.M. 26/03/85 con autorizzazione del 21/03/86 "Prove di reazione al fuoco secondo D.M. 26/03/85".
- MINISTERO INTERNO: Legge 81/84 e D.M. 26/03/85 con autorizzazione del 10/07/86 "Prove di resistenza al fuoco secondo Circolare n. 91 del 14/08/81".
- MINISTERO INTERNO: Legge 81/84 e D.M. 26/03/85 con autorizzazione del 02/07/82 "Prove di resistenza al fuoco secondo Circolare n. 7 del 02/04/81 e norma CNVVF/CCI UNI/972".
- MINISTERO INTERNO: Legge 81/84 e D.M. 26/03/85 con autorizzazione del 12/04/88 "Prove su entitativi d'incendio portatili secondo D.M. 20/12/82".
- SISTEMI (MINISTERO UNIVERSITA' E RICERCA SCIENTIFICA E TECNOLOGICA): Legge 46/82 con D.M. 03/10/85 "Immersione nell'acqua dei laboratori attrezzati a svolgere ricerche di carattere applicativo a favore delle piccole e medie industrie".
- MINISTERO PUBBLICA ISTRUZIONE: Protocollo n. 116 del 27/05/87 "Isotipazione alle Scansioni Anagrafe Nazionali delle fotocopie con codice N. E0-00191".
- SINCERT (Accreditamento Organismi Certificazione): Accreditamento n. 057A del 19/12/80 "Organismo di certificazione di sistemi qualità".
- SINUL (Sistema Nazionale per l'Accreditamento di Laboratori): Accreditamento n. 0021 del 14/11/81.
- SIT (Servizio di Testare in Italia): Accreditamento n. 20 "Centro SIT di taratura per grandezze termofisiche ed elettriche".
- ICM (Istituto di Certificazione Industriale per la Meccanica): "Prove di laboratorio nell'ambito degli schemi di Certificazione di Prodotto".
- IQM (Istituto per il Marchio Qualità): "Prove di laboratorio nell'ambito degli schemi di Certificazione di Prodotto per carne fumata".
- UNOSAL (Unione Nazionale Costruttori Serramenti Alluminio Acciaio Leghe): Riconoscimento del 02/02/85 "Laboratorio per le prove di certificazione UNOSAL su serramenti e facciate continue".
- UNI (Ente Nazionale Italiano di Unificazione - Settore Certificazioni): "Prove di laboratorio nell'ambito degli schemi di Certificazione di Prodotto per termoisolanti a legna con fluido a circolazione forzata e serramenti esterni".

PARTECIPAZIONI ASSOCIATIVE:

- AIA: Associazione Italiana di Acustica.
- AICARR: Associazione Italiana Condizionamento dell'Aria Riscaldamento Refrigerazione.
- AIQ: Associazione Italiana per la Qualità.
- AIPAD: Associazione Italiana Prove non Distruttive.
- ALIF: Associazione Laboratori Italiani Fuoco.
- ALPI: Associazione Laboratori di Prova Indipendenti.
- ASHRAE: American Society of Heating, Refrigerating and Air-Conditioning Engineers Inc.
- ASSINDUSTRIA: Associazione degli industriali di Rimini.
- ASTM: American Society for Testing and Materials.
- ATG: Associazione Tecnologica dei Gas.
- CTE: Collegio dei Tecnici della Industrializzazione Edilizia.
- CTE: Comitato Tecnico Italiano.
- EAPRM: European Association of Research Managers and Administrators.
- EARTO: European Association of Research and Technology Organization.
- EGOLF: European Group of Official Laboratories for Fire Testing.
- UNI: Ente Nazionale Italiano di Unificazione.

CLAUSOLE

Il presente documento si riferisce solamente al campione o materiale sottoposto a prova.
"Il presente documento non può essere riprodotto parzialmente, salvo approvazione scritta del laboratorio".

ABRIDGED TEST REPORT No. 189470

(Refers to test report No. 189076 issued by this Institute on 26/10/2004)

Place and date of issue: Bellaria, 08/11/2004

Customer: AIGNEP S.p.A. - Via Industriale n. 1 - 25070 BIONE (BS)

Date test requested: 13/09/2004

Order number and date: 26665, 14/09/2004

Date specimen received: 13/09/2004

Date test effected: from 11/10/2004 to 15/10/2004

Purpose of test: Testing copper-alloy quick-action couplings for use with aluminium tubes

Test site: Istituto Giordano S.p.A. - Blocco 1 - Via Rossini, 2 - 47814 Bellaria (RN)

Specimen origin: supplied by Customer

Identification of specimen received: No. 2004/1522

Description of specimen

The test specimens are known as "Raccordi ad innesto rapido per tubazioni in alluminio Serie 90.000".

Result of test

The tests listed below, agreed with the Customer and, in the absence of specific standards, conducted in accordance with standard UNI EN 1254-2: 2000, gave the following results:

- Leaktightness under internal pneumatic pressure: No visible signs of leakage;
- bursting strength test: DN 20: 115 bar, DN 25: 75 bar, DN 32: 78 bar, DN 40: 75 bar, DN 50: 58 bar and DN 63: 62 bar;
- resistance to pull-out: maximum axial movement 0,9 mm and no visible leakage in the subsequent pneumatic pressure test;
- leaktightness under internal pneumatic pressure whilst subjected to bending: no visible signs of leakage or damage.

As regards the description of the specimen, normative references, test methods, test equipment, test results and everything else necessary for the identification of the work carried out, please see Test Report No. 189076 issued by this Institute on 26/10/2004.

Test Technician
(Per. Ind. Walter Frattini)

Manager, Applied Physics
Laboratory
Dott. Ing. Vincenzo Iommi

Chairman or
Managing Director

Dott. Ing. Vincenzo Iommi

Comp. AV
Revis. *fa*

This abridged report consists of 1 sheet
This document is the English translation of the abridged test report No. 189470 of 08/11/2004 issued in Italian.
Date of translation: 29/11/2004.

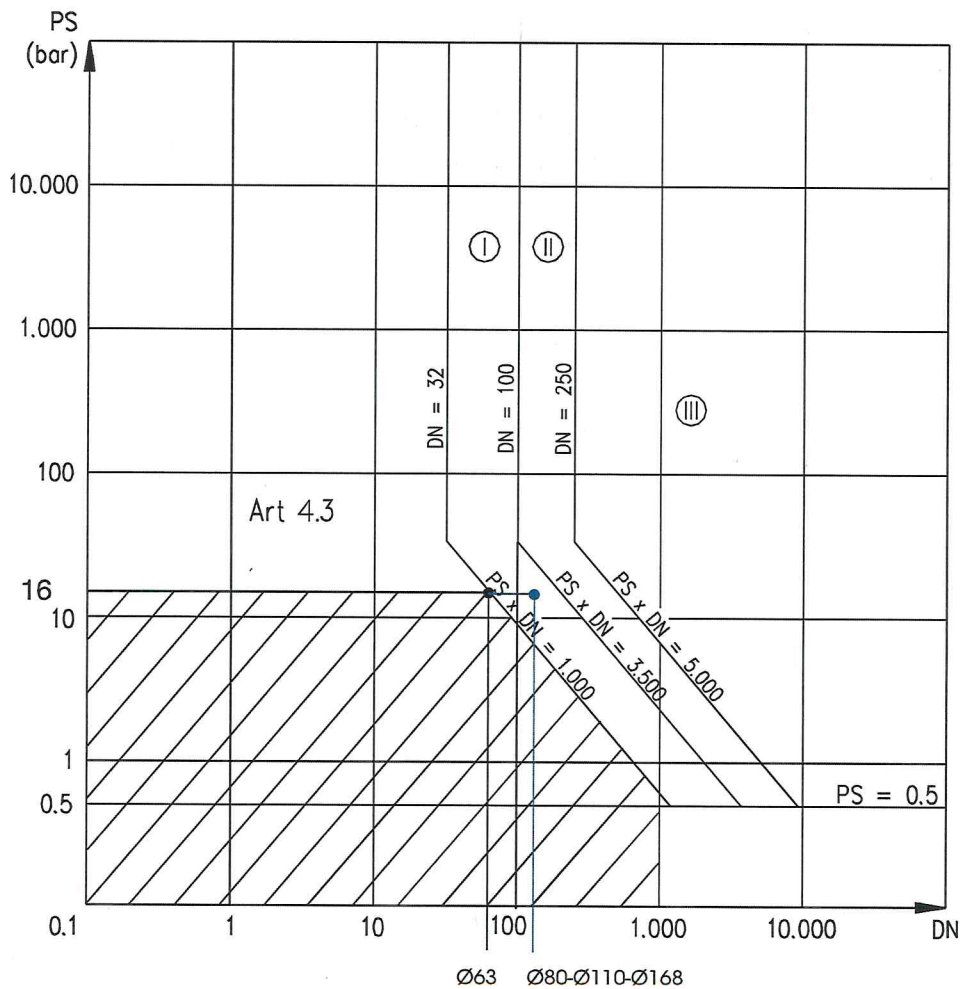
Sheet
1 of 1

CONFORMITY DECLARATION FOR THE DISTRIBUTION OF COMPRESSED-AIR

We declare that the system used with pressure 0.99 ÷ 16 bar and temperature -20°C ÷ 80°C with directive **2014/68/UE (PED: Pressure Equipment Directive)**.

Considering the internal diameter for DN63 and max pressure 16 bar, on can see on the graphic that the intersection point PS x DN=16x59= 944 is on the left side of zone PS x DN= 1.000; it meas is exempt from CEE marking according to the above mantioned directive (Art.4.3). Therefore all tubes and fitting (Ø20-Ø25-Ø32-Ø40-Ø50- Ø63) do not require any CEE marking.

Considering the internal diameter for DN80, DN110, DN168 and maximum pressure of 16 bar, the intersection point (PSxDN, 16x76=1216 -> DN 80, 16x105=1680 -> DN 110 e 16x160,3=2565 -> DN168) in the chart above, is in the area called "CATEGORIA I". According to Directive 2014/68/UE this area has a conformity evaluation made at factory.



Data Sheet:				Internal alloy name: 6060						
EN AW 6060 - Profiles				International alloy name : EN AW 6060						
Alumeco A/S				Chemical Symbol: EN AW – AlMgSi						
				DIN-Werkstoff no.: 3.3206						
				Alloy type: Heat treatable alloy						
Main usage:		Main properties:		Important norms and literature:						
<ul style="list-style-type: none"> • Constructions • Anodizing in general • Automotive • Forgings • Marine and offshore 		<ul style="list-style-type: none"> • Very good atmospheric corrosion resistance • Very good workability • Decoration anodisation • Heat treatable alloys (Soft T4 temper) 		Extrusion: EN755-1: Technical conditions for inspection and delivery EN755-2: Mechanical properties Series EN755-3 to EN755-9: Tolerances on dimensions and forms for different extrusions Usages: EN 13195: Specifications for wrought products for marine applications EN 602: Usage for food industry Chemical composition: EN573-3: Chemical composition						
Chemical composition. EN573-3:2009										
Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Remarks	Other elements	
0,30-0,6	0,10-0,30	0,10	0,10	0,35-0,6	0,05	0,15	0,10	N/A	Each	together
									0,05	0,15
Typical mechanical properties. EN755 - 2										
Product group		Temper		Rm		Rp _{0,2}		A		Hardness*
Dimension (mm)				MPa		MPa		%		HB
Rod/Bar ≤ 150		T4		Min. 120		Min. 60		16		50
Rod/Bar ≤ 150		T6		Min. 190		Min. 150		8		70
Rod/Bar ≤ 150		T66		Min. 215		Min. 160		8		75
Tubes		T6		Min. 190		Min. 150		8		70
Wall thickness ≤ 15										
Profiles		T4		Min. 120		Min. 60		16		50
Wall thickness ≤ 25										
Profiles		T6		Min. 170		Min. 140		8		70
Wall thickness 3 < t ≤ 25										
Profiles		T66		Min. 195		Min. 150		8		75
Wall thickness 3 < t ≤ 25										
* Information values only;										
Physical properties:										
Density		Solidification		Electrical		Thermal		Thermal		E - modulus
g/cm ³		range		conductivity		conductivity		expansion		(N / mm ²)
		°C		%IACS		W/m K		(µm m ⁻¹ K ⁻¹)		
2,70		645-658		54		209		23,4		300°C
										69.500
Typical Alumeco products with this alloy										
<ul style="list-style-type: none"> • Bars in various dimensions and form • Angle profiles • Tubes • Profiles 										
Properties and information's (3 high/good; 2 Middle; 1 Poor/bad)										
Resistance: Corrosion index, general: 3 Marine Atm. Corr index: 3 Hot workability: Extrusion: 3 Forging: 3 Cold formability: Cold formability general: 2 Deep drawing: 1 Bending: 2 – 3 (Depending on the temper)			Weldability TIG welding: 2 MIG welding: 2 Solderability Brazability index: 2 Solderability index: 2			Machinability Machinability index: 3 Tips on machinability:			Anodizing: Decorative anodizing surface treatment: 3 Protective anodizing index: 3 Hard anodizing: 3 Color anodizing: 3 General Information:	

Data Sheet EN AW 6060 - Profiles Including anodizing Alumeco A/S		Internal alloy name: 6060 International alloy name: EN AW 6060 Chemical Symbol: EN AW – AlMgSi DIN-Werkstoff no.: 3.3206 Alloy type: Heat treatable alloy
Main usage <ul style="list-style-type: none"> • Constructions • Anodizing in general • Automotive • Forgings • Marine and offshore 	Main properties <ul style="list-style-type: none"> • Very good atmospheric corrosion resistance • Very good workability • Decoration anodized 	Important norms and literature Extrusion: EN 755-1: Technical conditions for inspection and delivery EN 755-2: Mechanical properties EN 755-9: Tolerances on dimensions and forms for different extrusions Chemical composition: EN 573-3: Chemical composition Usages: EN 13195: Specifications for wrought products for marine applications EN 602: Usage in the food industry Anodizing: ISO 7599 (DIN 17611): Anodizing of aluminium and its alloys

Chemical composition (%) EN 573-3

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Remarks	Other elements Each together	
0.30-0.60	0.10-0.30	0.10	0.10	0.35-0.60	0.05	0.15	0.10	N/A	0.05	0.15

Typical mechanical properties EN 755 - 2

Product group Dimension (mm)	Temper	Rm MPa	Rp0,2 MPa	A %	Hardness* HB
Profiles Wall thickness ≤ 5	T6	Min. 190	Min. 150	8	70
Profiles Wall thickness 5 < t ≤ 25	T6	Min. 170	Min. 140	8	70

* Information values only

Anodizing Classes and layer thicknesses ISO 7599

Class	Minimum average thickness (µm)	Minimum local thickness (µm)
AA5	5,0	4
AA10	10,0	8
AA15	15,0	12
AA20	20,0	16
AA25	25,0	20

Physical properties of metal

Density	Solidification range	Electrical conductivity	Thermal conductivity	Thermal expansion	Annealing temperature	E - modulus
G cm ⁻³	°C	%IACS	W m ⁻¹ K ⁻¹	µm m ⁻¹ K ⁻¹	°C	N mm ⁻²
2.70	645-658	54	209	23.4	350-400	69,500

Typical Alumeco products with this alloy

- Various profiles
- Anodizing pretreatment – E6 – Chemical etched

Properties and information (3 high/good; 2 medium; 1 poor/bad)

Resistance Corrosion index, general: 3 Marine atm. corr. index: 3 Hot workability N/A – Anodizing destroyed. Cold formability N/A – Anodizing destroyed.	Weldability TIG welding: 2 MIG welding: 2 Anodizing needs to be removed before welding Solderability 2 Anodizing needs to be removed before soldering	Machinability Machinability index: 1 Tips regarding machining Bear in mind that the anodizing gives the alloy a very hard surface layer.	Anodizing (Already anodized) Decorative anodizing surface treatment: 3 Protective anodizing index: 3 Hard anodizing: 3 Color anodizing: 3 General information The anodized layer and the profiles does not have the same thermal expansion.
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Data Sheet		Internal alloy name: 6082							
EN AW 6082 – Profiles		International alloy name: EN AW 6082							
Alumeco A/S		Chemical Symbol: EN AW – AlSi1MgMn							
		DIN-Werkstoff no.: 3.2315							
		Alloy type: Heat treatable alloy							
Main usage	Main properties	Important norms and literature							
<ul style="list-style-type: none"> Machining Machinery Heavy duty structures Marine and offshore 	<ul style="list-style-type: none"> Very good atmospheric corrosion resistance Very good workability Good machinability Heat treatable alloys (Soft T4 temper) 	Extrusion: EN 755-1: Technical conditions for inspection and delivery EN 755-2: Mechanical properties EN 755-9: Tolerances on dimensions and forms for different extrusions Usages: EN 13195: Specifications for wrought products for marine applications EN 602: usage in the food industry Chemical composition: EN 573-3: Chemical composition							
Chemical composition EN 573-3:2009									
Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other elements	
								Each	together
0.7-1.3	0.5	0.1	0.4-1.0	0.6-1.2	0.25	0.2	0.1	0.05	0.15
Typical mechanical properties EN 755 – 2 (Extruded profiles)									
Open profile thickness (mm)	Temper		Rm MPa	Rp0,2 MPa	A %	Hardness* HB			
≤ 25	T4		Min. 205	Min. 110	14	70			
≤ 5	T6		Min. 290	Min. 250	8	95			
5 < t ≤ 25	T6		Min. 310	Min. 260	10	95			
* Information values only									
Physical properties									
Density g/cm ³	Solidification range °C	Electrical conductivity %IACS	Thermal conductivity W/m K	Thermal expansion (µm m ⁻¹ K ⁻¹)	Annealing temperature °C	E - modulus (N / mm ²)			
2.70	575-650	44	172	23.1	350-400	70,000			
Typical Alumeco products with this alloy									
<ul style="list-style-type: none"> Profiles in various dimensions and form 									
Properties and information (3 high/good; 2 medium; 1 poor/bad)									
<u>Resistance</u> Corrosion index, general: 3 Marine atm. corr. index: 3 <u>Hot workability</u> Extrusion: 3 Forging: 3 <u>Cold formability</u> Cold formability general: 2 Deep drawing: 1 Bending: 2 – 3 (Depending on the temper)		<u>Weldability</u> TIG welding: 2 MIG welding: 2 <u>Solderability</u> 1		<u>Machinability</u> Machinability index: 3		<u>Anodizing</u> Decorative anodizing surface treatment: 2 Protective anodizing index: 3 Hard anodizing: 3 Color anodizing: 2 <u>General information</u> Decorative anodizing can be a challenge due to crystal growth in the material.			

Data Sheet EN AW 5754 – Rolled products and tread plates Alumeco A/S		Internal alloy name: 5754 International alloy name: EN AW 5754 Chemical Symbol: EN AW – AlMg3 DIN-Werkstoff no.: 3.3535 Alloy type: None heat treatable alloy
Main usage <ul style="list-style-type: none"> • Molds • Machines and machines parts • Marine applications • Application for bending • Facade and building industry • Can be used in the food industry • Etc. 	Main properties <ul style="list-style-type: none"> • High corrosion resistance • Good weld abilities 	Important norms and literature Rolled products: EN 485-1: Technical conditions for inspection and delivery EN 485-2: Mechanical properties EN 485-3: Tolerances on dimensions and form hot rolled products EN 485-4: Tolerances on dimensions and form cold rolled products EN 1386: Tread plate - Specifications Usages: EN 13195: Specifications for wrought products for marine applications EN 602: Chemical composition of semi-finished products for the used for the fabrication of articles for use in contact with foodstuff Chemical composition: EN 573-3: Chemical composition

Chemical composition (%) EN 573-3

Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Remarks	Other elements Each together	
0.40	0.4	0.10	0.5	2.6-3.6	0.30	0.20	0.15	Mn + Cr 0.1 - 0.6	0.05	0.15

Typical mechanical properties EN 485 – 2 and EN 1386 (Tread Plates)

Thickness range (mm)	Temper	Rm MPa	Rp _{0,2} MPa	A _{50 mm} %	Hardness* HB	Bend radius*	
						180°	90°
0.5 up to 1.5	H111	190 - 240	Min. 80	Min. 14	52	0.5t	0.5t
1.5 up to 3.0	H111	190 - 240	Min. 80	Min. 16	52	1.0t	1.0t
3.0 up to 6.0	H111	190 - 240	Min. 80	Min. 18	52	1.0t	1.0t
0.5 up to 1.5	H22	220 - 270	Min. 130	Min. 8	63	1.5t	1.0t
1.5 up to 3.0	H22	220 - 270	Min. 130	Min. 10	63	2.0t	1.5t
1.5 up to 3.0**	H114	190 - 260	Min. 80	Min. 10	-	-	2.0t
3.0 up to 6.0**	H114	190 - 260	Min. 80	Min. 12	-	-	2.0t

* Information values only

** EN1386 – Tread Plates

Physical properties

Density g/cm ³	Solidification range °C	Electrical conductivity %IACS	Thermal conductivity W/m K	Thermal expansion (µm m ⁻¹ K ⁻¹)	Annealing temperature °C	E - modulus (N / mm ²)
2.66	610 - 640	32.5	132	23.7	350 – 400	70,500

Typical Alumeco products with this alloy

- Sheets and plates
- 3/5 and 5/7 tread plate

Properties and information (3 high/good; 2 medium; 1 poor/bad)

<u>Resistance</u> Corrosion index, general: 3 Marine atm. corr. index: 3 <u>Hot workability</u> Extrusion: 2 Forging: 2 <u>Cold formability</u> Cold formability general: 2 Deep drawing: 2 Bending: 2 – 3 Be aware that the formability categorizations depend on the temper of the alloy.	<u>Weldability</u> TIG welding: 3 MIG welding: 3 <u>Solderability</u> 1	<u>Machinability</u> Machinability index: 2	<u>Anodizing</u> Decorative anodizing surface treatment: 1 Protective anodizing index: 3 Hard anodizing: 3 Color anodizing: 2 <u>General information</u> Decorative anodizing can be a challenge due to the composition of the alloy.
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Data Sheet		Internal alloy name: 2007									
EN AW 2007 – Rods and bars		International alloy name: EN AW 2007									
Alumeco A/S		Chemical Symbol: EN AW – AlCu4PbMgMn									
		DIN-Werkstoff no.: 3.1645									
		Alloy type: Heat treatable alloy									
Main usage	Main properties	Important norms and literature									
<ul style="list-style-type: none"> Forming Mechanical Engineering Tools 	<ul style="list-style-type: none"> High strength material Good machinability Low corrosion resistance NOT RoHS compliable 	Extruded: EN 755-1: Technical conditions for inspection and delivery EN 755-2: Mechanical properties EN 755-3: Tolerances on dimensions and form round bars EN 755-6 Tolerances on dimensions and form hexagonal bars Cold drawn: EN 754-1: Technical conditions for inspection and delivery EN 754-2: Mechanical properties EN 754-3: Tolerances on dimensions and form round bars EN 754-6 Tolerances on dimensions and form hexagonal bars									
		Chemical composition: EN 573-3: Chemical composition Rolled products: EN 485-1: Technical conditions for inspection and delivery EN 485-2: Mechanical properties EN 485-3: Tolerances on dimensions and form hot rolled products EN 485-4: Tolerances on dimensions and form cold rolled products									
Chemical composition (%) EN 573-3											
Si	Fe	Cu	Mn	Mg	Zn	Bi	Pb	Sn	Other elements Each together		
0.8	0.8	3.3-4.6	0.50-1.0	0.40-1.8	0.8	0.20	0.8-1.5	0.20	0.10	0.30	
Typical mechanical properties EN 754-2 - Drawn											
Diameter range (mm)		Temper		Rm MPa		Rp0,2 MPa		A %		Hardness* HB	
30 up to 80		T3		Min. 340		Min. 220		6		95	
Typical mechanical properties EN 755-2 - Extruded											
≤ 80		T4		Min. 370		Min. 250		8		95	
80 < D ≤ 200		T4		Min. 340		Min. 220		8			
* Information values only											
Physical properties											
Density g/cm ³	Solidification range °C	Electrical conductivity %IACS	Thermal conductivity W/m K	Thermal expansion (µm m ⁻¹ K ⁻¹)	Annealing temperature °C	E - modulus (N / mm ²)					
2.85	540 - 645	34	130 - 150	24	350-400	73,000					
Typical Alumeco products with this alloy											
<ul style="list-style-type: none"> Round bars with the diameter from 10 – 100 mm Diameter below 50 mm is typically extruded / drawn and above is it only extruded Not standard, but can be found as sheets with the thickness 1 – 10 mm 											
Properties and information (3 high/good; 2 medium; 1 poor/bad)											
<u>Resistance</u> Corrosion index, general: 1 Marine atm. corr. index: 1 <u>Hot workability</u> Extrusion: 2 Forging: 2 <u>Cold formability</u> Cold formability general: 1 Deep drawing: 1 Bending: 1			<u>Weldability</u> TIG welding: 1 MIG welding: 1 <u>Solderability</u> 1			<u>Machinability</u> Machinability index: 3 <u>Tips regarding machining</u> Tension/deformation is possible to occur			<u>Anodizing</u> Decorative anodizing surface treatment: 1 Protective anodizing index: 2 Hard anodizing: 2 Color anodizing: 1		