S.A.V. S.p.A Società Alluminio Veneto

Aluminium alloys ingots for remelting

					<u>AL</u>	L0 `	Y DA	TA	SHEE'	<u> </u>				
ALLOY GROUP ¹		NUMERICAL DESIGNATION ¹				CHEMICAL DESIGNATION ¹					S. /	S.A.V. ALLOY CODE		
			EN /	EN AB - 46500			EN AB-AI		Si9Cu	Si9Cu3(Fe)(Zn)		01014017		017
				¹ EN	1676:2020 Alui	ninium a	and aluminiu	m alloys -	- Alloyed ingots	for remelting	g – Specific	ations		
					NGOTS	СН	EMIC	AL C	OMPOS	ITION			Other	Other
Alloy	% _{wt}	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb⁺	Sn	Ti	Other Each	Total
EN AB - 46500 ¹	Min. Max	8,0 11.0	0,6	2,0	- 0,55	0,15	- 0.15	- 0.55	- 3,0	- 0.29	- 0.15	- 0.20	- 0.05	- 0.25
40300	WIdX	11,0	1,2	1-	1676:2020 Alur	ninium a	nd aluminiur	n alloys -	Alloyed ingots has a lead cont	for remelting	– Specific		0,05	0,25
				C/	ASTING	S C	HEMIC	CAL	сомро	SITIO	N			
Alloy	% wt	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb*	Sn	Ti	Other Each	Other Total
NAC -	Min.	8,0	-	2,0	-	0,05	-	-	-	-	-	-	-	-
46500 ²	Max	11,0	1,3 2E	4,0 N 1706:202	0,55 20 Aluminium a	0,55 nd alum	0,15 inium alloys	0,55 – Casting	3,0 s – Chemical c	0,29 omposition a	0,15 nd mechan	0,25 ical properties.	0,05	0,25
					* The All	oy produ	iced by S.A.	V. S.p.A.	has a lead cont	ent ['] less than	0,1%.			
									PERTIE					
				Mini		nanica			separately					
	Casting r	nethod		d	Temper esignation		Tensile strength <i>R_m [MPa] min.</i>			Yield strength R _{p0,2} [MPa] min		Elongation Brinnell hardn A [%] min HBW min		
Sand Casting -						-	, , ,	-		-		-		
Chill Casting - Low Pressure die Casting -					-		-				-			
LOW	Investmer				-		-			-		_		-
	ressure di				F		240			140		<1		80
	I mechanio pecimens f				-		·	-		-		-		-
	e assumed tha	t the given v	² EN 1706 alues can be	e reached th	hroughout the c	asting s	ince mechan	nical prop		lepend on th	e solidificat	operties ion rate, the heat an supplier and c		the soundness
					PH	YSI	CAL P	ROP	ERTIES	²				
ОР —	SAND CASTING						-		MACHINABILITY			AS CAST ST	В	
	PERMANENT MOULD CASTING						-		MACHINABILITY AFTER H			EAT TREATMENT		-
	PRESSURE DIE CASTING						•		RESISTANCE TO CO			ORROSION		D
3	INVESTMENT CASTING						-	TIES	DECORATIVE ANODIZING			NODIZING		E
-	FLUIDITY						В	ROPER	ABILITY TO BE WEL			WELDED		F
	RESISTANCE TO HOT TEARING						В	OTHER PROPERTIES	ABILITY TO BE POLIS			OLISHED		С
CAS	PRESSURE TIGHTNESS						C E	5	LINEAR THERMAL EXPA [10-6/K] (293 K-373					21,00
8	STRENGTH AT ROOM TEMPERATURE						В		ELECTRICAL CONDUCTIVITY [MS/m]			n]	13 - 17	
	STRENGTH AT HIGH TEMPERATURE 200 °C						В		THERMAL CONDU [W/(m K)]					110 - 120
ANICA	DUCTILITY (SHOCK RESISTANCE)						D							
			RESISTA [MPA]	NCE		6	0 - 90							
	es the most cor			1	A:		B:		C:		D:	E		F:

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COMPANY WITH MANAGEMENT SYSTEM CERTIFIED = ISO 9001 = = IATF 16949 =

COMPANY WITH MANAGEMENT SYSTEM CERTIFIED = ISO 14001 = = ISO 45001 = = ISO 50001 =

VERIFIED ENVIRONMENTAL MANAGEMENT **EMAS** IT-00184

S.A.V. S.p.A Società Alluminio Veneto

Aluminium alloys ingots for remelting

	HEAT TREATMENT DESIGNATION ²							
ABBREVIATION	HEAT TREATMENT							
F	AS CAST							
0	ANNEALED							
T1	CONTROLLED COOLING FROM CASTING AND NATURALLY AGED							
T4	SOLUTION HEAT TREATED AND NATURALLY AGED WHERE APPLICABLE							
T5	CONTROLLED COOLING FROM CASTING AND ARTIFICIALLY AGED OR OVER-AGED							
T6	SOLUTION HEAT TREATED AND ARTIFICIALLY AGED							
T64	SOLUTION HEAT TREATED AND ARTIFICIALLY UNDER-AGED							
T7	SOLUTION HEAT TREATED AND ARTIFICIALLY OVER-AGED (STABILIZED)							
	² EN 1706:2020 Aluminium and aluminium alloys – Castings – Chemical composition and mechanical properties							

	CORRELATION WITH OTHER STANDARDS EN AB - 46500 / EN AC - 46500											
NATION		U.S.A. JAPAN		INTERNATIONAL	ITALY	FRANCE	GERMANY	GREAT BRITAIN				
STANDARD		B179	H2211	17615	UNI	NF A57-702	1725	BS 1490				
ST/	STATUS		ACTIVE	ACTIVE	SUPERSEDED	SUPERSEDED	SUPERSEDED	SUPERSEDED				
IDENTICAL STANDARD	INGOT SPECIFICATION	-	-	-	-	-	-	-				
SIMILAR STANDARD	INGOT SPECIFICATION	333.1 A383.1 B384.1 C384.1	AC4B	Al Si9Cu3(Fe)(Zn)	5075	-	GB-ALSi9Cu3 (226A) GBD-ALSi9Cu3 (226)	LM2 LM24				

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The physical and mechanical properties shown in this data sheet have a mere informative purpose since they are detected on sample cast separately in specific cooling conditions. No liability is accepted for decisions based on the indicated physical and mechanical properties and no guarantee is given for the physical and mechanical properties indicated, as they depend on the specific conditions of casting of the cast pieces.

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