



AM 4 - 150

from Pechiney Rhenalu specification IS 5632

THICKNESS25 to 305 mm

Wrought products, no quenching

CHEMICAL COMPOSITION5xxx ALLOY

MECHANICAL PROPERTIES

THICKNESS mm	MINI. VALUES					TYPICAL VALUES					
	UTS		0,2PS		E	UTS		0,2PS		E	Hardness
	MPa	ksi	MPa	ksi	%	MPa	ksi	MPa	ksi	%	HB*
25 ≤ e ≤ 101,6	275	39	125	18	17	300	43	160	23	21	90
101,6 < e ≤ 152,4	275	39	115	16	16	300	43	150	21	19	90
152,4 < e ≤ 254	250	36	105	15	13	285	41	140	20	18	85
254 < e ≤ 305	240	34	100	14	10	270	39	130	18	13	80

UTS, 0,2PS, E : Value at mid thickness ≤ 40 mm
at 1/4 thickness > 40 mm

HB* : ball 2.5 mm, 62.5 kg Indicative values

HEAT TREATMENT

ALUMOLD 4-150 is not hardened with any thermal treatment.

Hardening is obtained through wrought process.

PHYSICAL PROPERTIES

Specific gravity	2,66 kg/dm ³	Modulus of elasticity	71000 MPa
Coef. of thermal expansion (0-100°C)	23,8.10 ⁻⁶ /°C	Modul. of compression	72000MPa
Thermal conductivity (0-100 °C)	117 W/m.°C	Poisson's coefficient	0.33
Specific heat (0-100 °C)	899 J/kg.°C	Melting range	580 - 640°C

USAGE PROPERTIES

Welding	Refilling (TIG)	Very Good
	Fitting (GMA ou TMA)	Very Good
Anodizing	Protective	Excellent
	Hard	Excellent
Milling	Swarf breaking	O.K.
	Stability (distortion)	Excellent

DIMENSIONS

Minimum and maximum lengths available depend on their cross section.

Our sales office will be pleased to advise on these limits.

The herewith table is to be used only as a guide.

Thickness mm	Maximal Width mm	Standard Width mm	Length mm
25	3000	1500	3000
50	3000	1500	3000
100	3000	1500	4000 - 6000
150	3000	1500	4000 - 6000
200	2500	1000	4000
250	2000	1000	3000
300	2000	1500	3000

Pechiney Rhenalu

Z. I. des Listes - BP 130

63504 Issoire Cedex France

www.alumold.pechiney.com

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AM 4 - 110

from Pechiney Rhenalu specification IS 5502

THICKNESS250 to 585 mm

Cast block

CHEMICAL COMPOSITION5xxx ALLOY

MECHANICAL PROPERTIES

THICKNESS mm	TYPICAL VALUES					
	UTS		0,2PS		E	Hardness
	MPa	ksi	MPa	ksi	%	HB*
250 < e ≤ 600	240	34	110	15	9	80

UTS, 0,2PS, E : Value at 1/4 thickness

HB* : ball 2.5 mm, 62.5 kg Indicative values

HEAT TREATMENT

ALUMOLD 4-110 cannot be hardened with any thermal treatment.

PHYSICAL PROPERTIES

Specific gravity	2,66 kg/dm ³	Modulus of elasticity	71000 MPa
Coef. of thermal expansion (0-100°C)	23,8.10 ⁻⁶ /°C	Modul. of compression	72000 MPa
Thermal conductivity (0-100 °C)	117 W/m.°C	Poisson's coefficient	0.33
Specific heat (0-100 °C)	899 J/kg.°C	Melting range	580 - 640°C

USAGE PROPERTIES

Welding	Refilling (TIG)	Very Good
	Fitting (MIG ou TIG)	Very Good
Anodizing	Protective	Excellent
	Hard	Excellent
Milling	Swarf breaking	Good
	Stability (distortion)	Excellent

DIMENSIONS

Minimum and maximum lengths available depend on their cross section.

Our sales office will be pleased to advise on these limits.

The herewith table is to be used only as a guide.

Thickness mm	Standard Width mm	Length mm
250	1500	3000
300	1500	3000
350	1500	3000
400	1500	3000
450	1500	3000
500	1500	3000
550	1500	3000
585	1360*	3000

*Width rough from casting, delivered not sawn

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