

ALUMINIUM

NORME	NORME	Désignation du traitement thermique (ancienne appellation)	Type de moulage	Masse Volumique	CARACTERISTIQUES MECANQUES				APTITUDES TECHNOLOGIQUES							RESISTANCE A L'ACTION		PRINCIPAUX DOMAINES D'APPLICATIONS	PRINCIPAL APPLICATION FIELDS
					Résistance à la traction Rm Mpa min.	Limite conventionnelle d'élasticité Rp0,2 MPa min.	Allongement A50mm % min.	Dureté Brinell HBS min.	au Moulage	à l'Étanchéité	à l'Usinage	au Soudage	au Polissage	A l'anodisation		Atmosphérique	Air salin Eau de mer		
SYMBOL	SYMBOL	Thermic processing (former appellation)	Type of moulding	Density	MECHANICAL CHARACTERISTICS				TECHNOLOGICAL CAPABILITIES							RESISTANCE TO THE EFFORT			
European	French				Breraking load Rm Mpa min.	Elastic limit Rp0,2 Mpa min.	Elongation A50mm % min.	Brinell hardness HBS min.	for Moulding	for Sealing	for Machining	for Welding	for Polishing	for Anodisation		Atmos-phere	Salt mist Sea water		
EN AC-Al Cu4Mg Ti	AU 5 GT	ST4 (Y24)	Sable	2,80	300	200	5	90	B	B	E	A	B	B	B	A	I	Armement. Automobile. Aviation. Chemin de fer.Manutention.Mécanique. Mines. Motorcycle. Textiles. Travaux publics. Electricité (Appareillage).	Armaments. Automobile. Aeronautical. Rail. Handling equipment. Mechanical. Mines. Motorcycle. Textiles. Public works. Electricity (Equipment).
EN AC-Al Si5Cu3Mg	AS 5 U3	SF(Y20)	Sable	2,70	150	90	1	60	E	B	B	B	A	A	I	A	I	Automobile. Mécanique.	Automobile. Mechanical.
EN AC-Al Si7Mg	AS 7 G	SF (Y20) ST6 (Y23)	Sable	2,70	140 220	80 180	2 1	50 75	E B	E	A B	E	B	B	I	E	B	Agriculture. Appareils ménagers. Automobile. Industrie Aérospatiale. Chemin de fer. Chimie. Cycle.Electricité. Manutention. Marine. Mécanique. Mines. Motorcycle. Robinetterie. Textiles.	Agriculture. Household appliances. Automobile. Aerospace industry. Rail. Chemistry. Bicycle. Electricity. Handling equipment. Marine. Mechanical. Mining. Motorcycle. Plumbing fittings. Textiles.
EN AC-Al Si7Mg0,3	AS 7 G 03	ST6 (Y23) KT6 (Y33)	Sable Coquille	2,70	230 290	190 210	2 4	75 90	E	E	B	E	B	B	I	E	B		
EN AC-Al Si7Mg0,6	AS 7 G 06	ST6 (Y23) KT6 (Y33)	Sable Coquille	2,70	250 320	210 240	1 3	85 100	B	E	B	E	B	B	I	E	B		
EN AC-Al Si10Mg	AS 10 G	SF (Y20) ST6 (Y23) KF (Y30) KT6 (Y33)	Sable Coquille	2,65	150 220 180 260	80 180 90 220	2 1 2,5 1	50 75 55 90	B	B	A B A B	E	A	B	I	E	B	Agriculture. Appareils ménagers. Automobile. Industrie Aérospatiale. Chemin de fer. Chimie. Cycle.Electricité. Manutention. Marine. Mécanique. Mines. Motorcycle. Textiles.	Agriculture. Household appliances. Automobile. Aerospace industry.Rail. Chemistry.Bicycle.Electricity.Handling equipment.Marine.Mechanics.Mining. Motorcycle. Plumbing fittings. Textiles.
EN AC-Al Si12	AS 13	KF (Y30)	Coquille	2,65	170	80	6	55	E	E	A	E	A	A	I	E	B	Agriculture. Alimentation. Appareils ménagers. Automobile. Industrie Aérospatiale. Bâtiment. Chemin de fer. Chimie. Cycle. Electricité. Electro-domestique.Manutention. Marine. Mécanique. Motorcycle. Textiles.	Agriculture.Food.Household appliances. Automobile.Aerospace industry.Building. Rail.Chemistry.Bicycle.Electricity Hand-ling equipment. Marine. Mechanics. Mining. Motorcycle. Plumbing fittings. Textiles.
EN AC-Al Mg3	AG 3 T	SF (Y20) KF (Y30)	Sable Coquille	2,70	140 150	70 70	3 5	50 50	A	A	E	E	E	E	E	E	E	Alimentation. Appareils ménagers. Automobile. Chemin de fer.Bâtiment. Chimie.Electricité.Marine.Mines.Textiles. Industrie nucléaire.	Food. Household appliances. Automobile. Rail. Building.Chemistry.Electricity.Marine. Mining. Textiles. Nuclear power industry.
EN AC-Al Mg5	AG6	SF (Y20)	Sable	2,70	160	90	3	55	E	A	E	E	B	E	E	E	E	Alimentation.Appareils ménagers. Automobile. Chemin de fer. Bâtiment. Chimie. Electricité. Marine. Mines. Textiles.	Food. Household appliances. Automobile. Rail. Building. Chemistry. Electricity. Marine. Mining. Textiles.
EN AC-Al Zn5Mg	AZ 5 G	ST1 (Y29)	Sable	2,80	190	120	4	60	A	B	E	E	E	E	B	B	B	Automobile. Cycle. Electro-domestique. Mécanique.Bâtiment. Chemin de fer. Industrie Pétrolière	Automobile. Bicycle. Domestic electrical appliances. Mechanical. Building. Rail. Petroleum industry.
EN AC-Al Zn10Si8Mg	AZ 10 S 8 G	ST1 (Y29)	Sable	2,90	250	200	1	100	B	B	E	A	E	B	I	B	A	Alliages à utiliser pour pièces de grandes dimensions ou difficiles à redresser (autotrempant).	Alloy for use with large parts or parts that are difficult to straighten (self-hardening).

LEGENDE : E = Excellent - B = Bon - A = Acceptable - I = Impropre - KEY : E = Excellent - B = Good - A = Acceptable - I = Unsuitable