

MATERIALS AND REFERENCE STANDARDS



Quick Line System	Material	Reference Standards
Pipe	Aluminium extrusion Alloy EN AW T6 UNI-EN 755-2 with inside and outside titanium-based, chrome-free and RoHS-complying treating and electrocoated outside surface	UNI-EN 755-2
Ring nuts up to dia. 50	Polyamide 6 Dia.16÷50	ISO 1043
Ring nuts larger than dia.50	Aluminium Alloy EN-AB 46100	UNI-EN 1676
Bodies up to dia. 50	Polyamide 6	ISO 1043
Bodies larger than dia.50	Aluminium Alloy EN-AB 46100	UNI-EN 1676
Push ring	Poliamyde 6	ISO 1043
Split ring	Stainless steel X10CrNi18-8	UNI-EN 10088
Gaskets	NBR 70 (Viton® on request)	ISO 1043
Aluminium bodies and joints	Aluminium Alloy EN-AW 2011	UNI-EN 755-2
Brass bodies and joints	Brass Alloy CW 617N	UNI-EN 12165
Threaded inserts	Polyamide 6	ISO 1043
Applique bodies	Polyamide 6	ISO 1043
Quick branch bodies	Polyamide 6	ISO 1043
Brackets	Polypropylene	ISO 1043
M8 screw-bolts	Galvanized steel	UNI-EN-ISO 4032
Spacers	Polypropylene	ISO 1043
Bracket systems	Galvanized steel	-

QUICK LINE ALUMINIUM PIPE - ALUMINIUM ALLOY EN AW 6060



CHEMICAL COMPOSITION

Si	Fe	Cu	Mn	Mg	Cr	Zn	Others	Al
0,30 ÷ 0,60	0,10 ÷ 0,30	0,10 max	0,10 max	0,35 ÷ 0,60	0,05 max	0,15 max	0,15 max	Rest



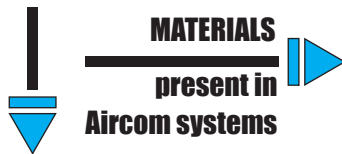
PHISICAL AND MECHANICAL CHARACTERISTICS

Characteristic	Value	Note
Treatment	T6	-
Density	2,7 Kg/dm ³	-
Elastic Modulus	69 KN/mm ²	-
Thermal Expansion	23 µm/°C	between 20°C and 100°C
Thermal Conductivity	200 W/(m·K)	at 20°C
Specific Warmth	880 ÷ 900 J/(Kg·K)	between 0°C and 100°C
Fusion Temperature	600 ÷ 660 °C	
Tensile Strength Rm	190 N/mm ²	Minimum
Yield Strength Rp	150 N/mm ²	Minimum
Elongation A %	8	Minimum
Elongation A (50mm) %	6	Minimum

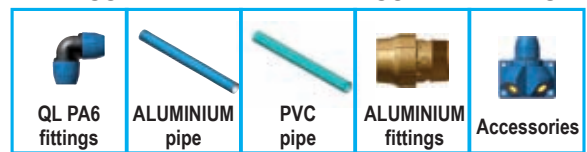
CHEMICAL COMPATIBILITY

Aircom systems guarantee a very high resistance against corrosion in standard working areas. In the following table you will find chemical compatibilities of our products with some organic compound, solvents, gases, acids, salts, bases.

CHEMICAL AGENTS



COMPATIBILITY WITH AIRCOM MATERIALS



	ALUMINIUM	NBR (O-ring)	VITON* (O-ring)	CANSAR (Inox)	PA (Polyamide)	PVC	QL PA6 fittings	ALUMINIUM pipe	PVC pipe	ALUMINIUM fittings	Accessories
ACETALDEHYDE	B	D	A	A	A	D	OK*	OK	NON	OK*	OK
ACETIC ACID 20%	B	B	B	A	D	B	NON	OK	OK	OK	NON
ACETONE	A	D	D	A	A	D	NON	OK	NON	NON	NON
ACETYLENE	A	B	A	A	A	A	OK	OK	OK	OK	OK
AMMONIUM	B	A	D	A	A	B	OK	OK	OK	OK	OK
BENZENE	B	D	A	B	B	C	OK*	OK	NON	OK*	OK
BORIC ACID	C	A	A	A	B	A	NON	NON	OK	NON	NON
BURNT LIME	A	A	A	A	A	A	OK	OK	OK	OK	OK
BUTANOL	A	B	A	A	D	A	OK	NON	OK	NON	NON
BUTTER	A	A	A	A	A	A	OK	OK	OK	OK	OK
CARBON DIOXIDE	A	A	A	A	A	A	OK	OK	OK	OK	OK
CARBON MONOXIDE	A	A	A	A	A	A	OK	OK	OK	OK	OK
CAUSTIC SODA	C	B	A	A	B	A	OK	NON	OK	NON	OK
CHLOROFORM	B	D	A	A	A	A	OK*	OK	OK	OK*	OK
CITRIC ACID	C	A	A	A	A	A	OK	NON	OK	OK	OK
CLHORIC ACID (20%)	D	D	D	D	D	A	NON	NON	OK	NON	NON
DIESEL GAS	B	A	A	B	A	-	OK	OK	NON	OK	NON
ETHANOL	A	A	A	B	B	A	OK	OK	OK	OK	OK
ETHYLENE GLYCOL	A	A	A	B	A	A	OK	OK	OK	OK	OK
FAT ACIDS	A	B	A	A	A	A	OK	OK	OK	OK	OK
FORMALDEHYDE 40%	B	B	A	A	A	A	OK	OK	OK	OK	OK
FUEL OIL	A	A	A	A	A	-	OK	OK	OK	OK	NON
GLUCOSE	A	A	A	A	A	A	OK	OK	OK	OK	OK
GLYCERINE	A	A	A	A	A	A	OK	OK	OK	OK	OK
HEPTAN	A	A	A	A	A	-	OK	OK	NON	OK	OK
HYDROGEN (GAS)	A	A	A	A	A	A	OK	OK	OK	OK	OK
METHYL ALCOHOL	B	A	C	A	B	A	OK*	OK	OK	OK*	OK
MILK	A	A	A	A	A	A	OK	OK	OK	OK	OK
MINERAL OIL	A	A	A	A	A	-	OK	OK	OK	OK	NON
MOTOR OIL	A	A	A	A	A	-	OK	OK	OK	OK	NON
NATURAL GAS (METHANE)	A	A	A	A	A	A	OK	OK	OK	OK	OK
NITRIC ACID (20%)	C	D	A	B	D	A	NON	NON	OK	NON	NON
NITROBENZENE	B	D	B	B	B	-	NON	OK	NON	NON	NON
OLEIC ACID	A	B	B	A	B	A	OK	OK	OK	OK	OK
OXALIC ACID	A	C	A	A	B	A	OK*	OK	OK	OK*	OK
PETROL	B	A	A	A	A	A	OK	OK	OK	OK	OK
PHENOL	A	D	A	B	D	D	NON	OK	NON	NON	NON
POTASSIUM PERMANGANATE	B	C	A	B	D	A	NON	NON	OK	NON	NON
PROPYLENE GLYCOL	B	A	A	B	A	A	OK	OK	OK	OK	OK
SILICONE	A	A	A	A	A	A	OK	OK	OK	OK	OK
SUGAR	A	A	A	A	A	A	OK	OK	OK	OK	OK
SULPHURIC ACID	C	D	B	D	D	A	NON	NON	OK	NON	NON
TANNIC ACID	C	A	A	A	C	A	NON	NON	OK	NON	NON
TARTARIC ACID	B	A	A	B	B	A	OK	OK	OK	OK	OK
TOLUENE	A	D	C	B	B	D	NON	OK	NON	NON	NON
UREA	B	B	A	B	A	A	OK	OK	OK	OK	OK
VASELINE	A	A	A	A	A	A	OK	OK	OK	OK	OK
VINEGAR	D	B	A	A	A	A	OK	NON	OK	OK	OK
XYLENE	A	D	B	B	B	A	OK*	OK	OK	OK*	OK

Legend

Compatibility between chemical agents and materials
Compatibility with Aircom products

A = Optimum; B = Good; C = Modest; D = Poor;

OK Compatible NON Compatible

* VITON O- Ring

Unavailable datum

N:B: If you need further information on compatibilities, please contact AIRCOM technical office.