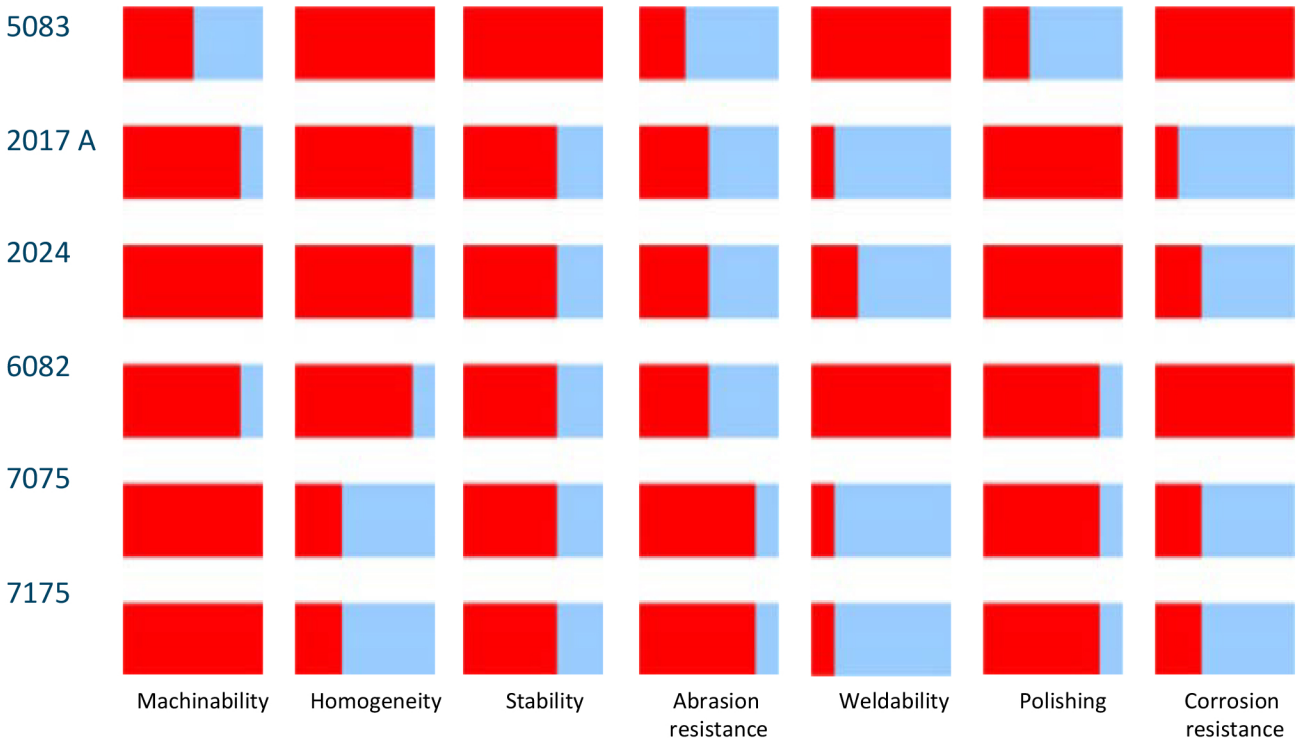
ALUMINIUM VARIANTS

Products	Shape (According to EN 573.-)	Other Designation	Delivery status	Thick	Mechanical properties				Characteristics	Use
					Rm (Mpa)	Rp0.2 (Mpa)	A%	HB Levels		
5083H111 / 5083C										
		AlMg4.5Mn0.7	AG4.5MC ALL : 3.3547 DIN : AlMg4.5Mn	H111 Cast 0		260	110	12		Very good processibility Slight deformation in processing Good weldability Good anodizing status Good resistance to corrosion smelt	Mechanical construction Prototype mould Blown moulds Food industry Special machines Precision Mechanics
2017 A										
		AlCu4MgSi(A)	A-U4G ALL : 3.1325 DIN : AlCuMg1	T451 T4 According to thickness	100 180	426 375	292 248	14.1 8.4	105	Good processibility	Mechanical construction
2024										
		AlCu4Mg1	NF02-004 : A-U4G1 AFNOR : 2024 ASTM : 2024 ISO CEN : AlCu4Mg1 ALL : 3.1355 DIN : AlCuMg2	T351	6-10 10-25 25-40 40-60 60-80 80-100 100-120	450 430/435 425/430 425/430 425 420/425 380	>=325 >=325 >=325 >=325 >=325 >=325 >=300	12 12 10 8 7 7 7	105/125	Good mechanical properties Good machinability Good hard anodiability Acceptable protection anodisability Good electron-beam weldability Good resistance spot weldability Acceptable brazing & soldering Acceptable cold formability Low corrosion resistance	Machining Engineering Mechanical engineering Aircraft industry
6082										
		AlSi1MgMn	NF02-004 : A-SGM0.7 AFNOR : A-SGM0.7 ASTM : 6082 ISO CEN : AlSi1MgMn ALL : 3.2315 DIN : AlZnMgCu1.5	T6 T651		260/310	220/260	8	95	Hardenable alloy Good mechanical properties Very good shape stability in machining Great corrosion resistance Very good weldability Very good ductivity Very good ability to cold transforming Very good polishing ability Great ability to anodic oxydation Good electrical conductivity	Machining Engineering Aeronautical industry Military industry Transport industry Nuclear energy industry Naval architecture Structures (frameworks & pylons) Profiles Scaffolds Bridges
7075										
		AlZn5.5MgCu	A-Z5GU ALL : 3.4365 DIN : AlZnMgCu1.5	T651 T6 According to thickness	100 180	533 492	462 426	8.5 7.3	150	Top quality mechanical characteristics	Cutting tool shoes Preproduction moulds Blown moulds Food industry Special machines Mechanical construction

7175											
		AlZn5.5MgCu(B)	AFNOR : 7175 ASTM : 7175 ISOCEN : AiZn5.5MgCu (B)	T7351	6-12 12-25 25-38 38-40 40-51 51-60 60-63 63-76 76-80 80-89 89-100	470/480 470/480 460/470 455/470 450/460 450/460 435/450 435/440 425/440 420/425 420	390/395 390/395 390/395 380/390 360/380 360/370 350/360 340/350 340/350 340 340	7 7 6 6 6 6 6 6 6 6 6	140/160	Good mechanical properties Good balance Resistance/ Tenacity/ Fatigue Average anodisability Acceptable for resistance weldability Coldforming not recommended on a hardened state Resistance to stress corrosion for thickness under 100mm (beyond 100mm at request)	Machining Engineering Mechanical engineering Aircraft industry

COMPARISON OF PROPERTIES OF THE DIFFERENT ALLOYS



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