



HYDRO

Precision shapes available alloys and mechanical properties in Europe

Physical Properties		Hydro Aluminium Alloys									
		1050	1100	3003	3102	3103	5049	6101 / 6106	HA1197	HA9048	HA9060
Density (20°C)	[g/cm ³]	2.70	2.71	2.73	2.73	2.73	2.71	2.70	-	2.70	2.70
Modulus of elasticity (20°C)	[N/mm ²]	66.000	66.000	67.000	67.000	67.000	66.700	66.700	-	67.000	67.000
Thermal expansions coefficient (0-100°C)	[10 ⁻⁶ K ⁻¹]	23.5	23.5	23.2	23.5	23.5	23.7	23.4	-	24.0	24.0
Thermal conductivity (20°C)	[W/mK]	210-220	205-210	160-200	190	160-200	140-180	200-220	-	170-180	175-185
Specific thermal capacity (20°C)	[J/kgK]	900	900	893	893	893	900	898	-	900	900
Electrical conductivity (20°C)	[m/Ωmm ²]	34-36	33-34	23-29	26	22-28	20-25	28-34	-	25-27	26-28
Resistance	[Ωmm ² /m]	0.029	0.029	0.042	0.038	0.042	0.044	0.032	-	0.038	0.036
Melting interval	[°C]	646-657	644-657	643-654	645-655	645-655	620-650	585-650	-	613-658	625-659