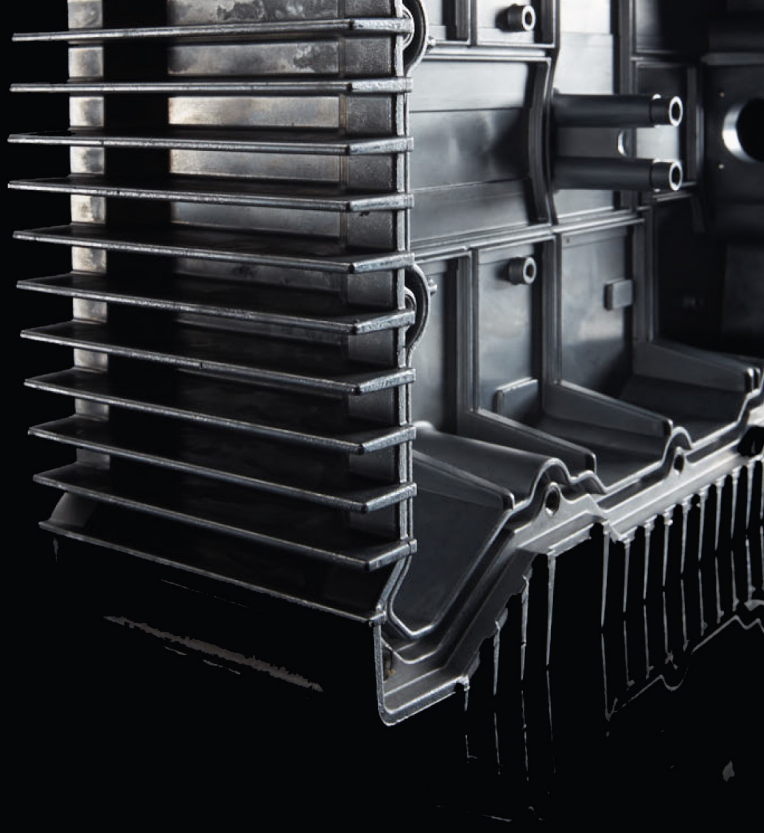

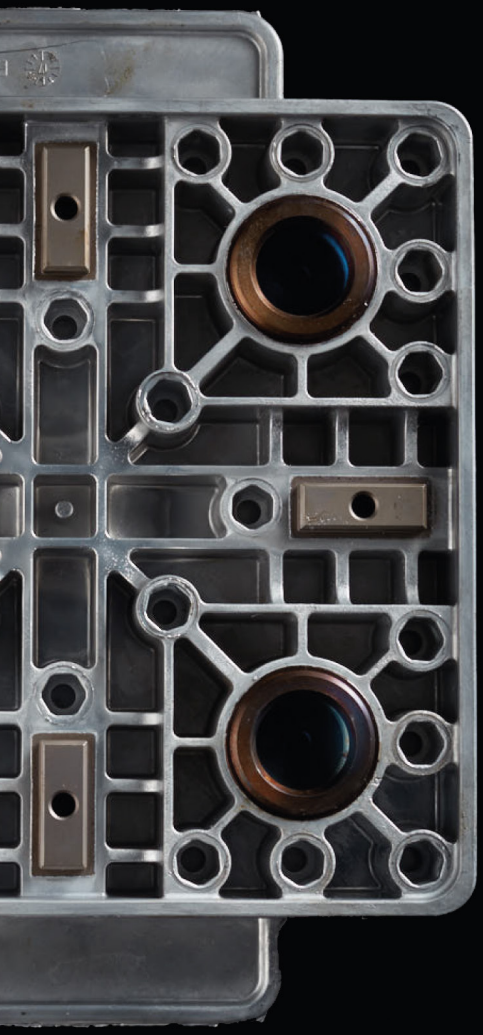

2022

Comptech alloys for Rheocasting

Trade name	Chemical composition	Source	Standard	Application	State	Rp02 (Mpa)	Rm (Mpa)	A %	W/m*k (100 C)	Remark	Supplier
Rheocool	AlSi2.5FeMg	Secondary	N.A.	Thermal management, heat sinks and coolers	F	90	200	9	165-175		Stena Aluminium
					O	85-130	150-190	4,5-6,5	180-198	Depending anneling process	Stena Aluminium
Rhegreen std.	AlSi5CuFe	Secondary	NA	All purpose, sustaiblity, pressure tight, leak free	F	135	249	2,7	150-155	226 & eq. replacement alloy	Stena Aluminium
					T5	112	229	3			Stena Aluminium
Rheostrong	AlSi7Mg	Secondary	A356.2	High strength, load carrying and fatigue parts	F	95	200	5,0-11		Depending thickness	Stena Aluminium
					T5	125	200	7			Stena Aluminium
					T6	195	270	8			Stena Aluminium
Eccomelt	AlSi7Mg	Secondary	A356.2	High Strength	F	95-115	200-230	10-18		Available in EU and NA	Eccomelt
					T5	130-190	210-270	5-10			Eccomelt
					T6	160-240	240-310	5-15			Eccomelt
Aural-5	AlSi7MnMg	Primary	A356	BIW components	F	100-107	225-228	8,4-13,8			
A319	AlSi6Cu4Mg	Primary	A319	High strength	T6	360-400	420-460	4.0-9			Rheinfelden
Revolution Al	AlSi7MnMg	Primary	A357	High Strength	F	150	240	4			Rio Tinto
					T4	130	240	11			Rio Tinto
					T6	200-280	280-300	3,0-9			Rio Tinto
Castaduct	AlMg4Fe2	Primary	NA	BIW components	F	120	250	15			Rheinfelden
RT 6xx+Ni	AlNiMgSi	Primary	NA	Strengh & Electrical Conductivity	F	80	170	15		Good thermal stability	Rio Tinto
					T4	90	200	18			Rio Tinto
					T6	180-210	240-260	11-16			Rio Tinto

Stronger, thinner, leaner, greener.

Rheocasting is a melt preparation process used to achieve desired design properties for EV´s and Telecom components by providing mechanical properties and other characteristics as high thermal conductivity. The process is used in high volume production since 2020.

Our contribution to a sustainable world is to participate in alloy development whit the goal to reach optimal combinations of CO2 and properties. The use of these alloys enables designers to reduce both weight and the CO2 imprint from the alloy giving a double environmental effect.

The process is a low cost process due to the use of smaller DC machines, no process additives, very low porosity levels and prolonged tool life.

Our journey into tomorrows castings begun in 2007 and we expect that we will continue to develop process, alloys and applications for another decade or two.

In focus of our development is your needs and applications why we are looking forward to meet you as a partner or customer to discuss present and future challenges.

COMP tech
Rheocasting

NORT AMERICA
Martin Hartlieb
martin.hartlieb@comptech.se
+1 514 929 8505

EUROPE
Staffan Zetterström
staffan.zetterstrom@comptech.se
+46 761715650

CHINA AND ASIA
Per Jansson
per.jansson@comptech.se
+46 761735459

Fabriksgatan 49-51 | Box 28 568 21 | Skillingaryd | Tel +46 (0)370-66 50 66 | www.comptech.se