



2024

Comptech alloys for Rheocasting



Trade name	Chemical composition		Standard	Application	State	Rp02 (Mpa)	Rm (Mpa)	A %	W/m*k (100 C)				
Rheocool	AlSi2.5FeMg	Secondary	N.A	Thermal management	F	90	200	9	165-175				
					O	85-130	150-190	4,5-6,5	180-198				
Rheogreen	AlSi5-8CuFe	Secondary	N.A	All purpose, sustainability, pressure tight, leak free	F	140	250	2-5					
					T5	150	250	2-4					
Eccomelt	AlSi7Mg	Secondary	A356	High Strength	F	95-115	200-230	10-18					
					T5	160-180	240-260	8-12					
					T6	160-240	240-310	5-15					
Aural-5/C611	AlSi7MnMg	Primary	A374	BIW components	F	100-120	225-260	8-16					
A319	AlSi6Cu4	Primary	A319	High strength	T6	360-400	420-460	4-9					
Revolution Al	AlSi7MnMg	Primary	A357	High Strength	F	90	185	8					
					T6	240-280	320-340	5-8					
Castaduct	AlMg4Fe2	Primary	N.A	BIW components	F	120	250	15					
A380	AlSi8	Secondary	A380	All purpose, sustainability, pressure tight, leak free	F	140-170	260-325	2,5-5					
					*ADC10, 46500	T5	150-175	270-330	2-3,5				
A380Mg0,3	AlSi8Mg0,3	Secondary	A380Mg0,3	All purpose, sustainability, pressure tight, leak free	F	160-170	260-280	1,5-3					
					T5	230-250	290-310	1,5-3					
A356	AlSi7Mg0,3	Primary	A356	All purpose, sustainability, pressure tight, leak free	F	90	160	3					
					*42000	AlSi7Mg	Secondary	42000	F	110	210	4-6	
					T5				205	270	3-4		
					T6	280	310	3-5					

*Equivalent



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 with 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
Rheocasting **tech**

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