

FROM CONCEPT TO CASTING THRU FINAL MACHINING CAST METALS PROVIDES TECHNICAL SERVICE AT EACH STEP

HEAT TREAT SPECIFICATIONS

Aluminum Sand Castings:

Descriptions

- F As cast, cooled to room temperature naturally, no further heat treat processing
- **T5** Cooled to room temperature naturally, then artificially aged
- **T6** Solution heat treated and artificially aged
- **T7** Solution heat treated and over-aged

Heat Treatment Details

Aluminum Sand Mold Castings

Alloy	Temper	Solution Heat Treat		Aging Treatment	
		Temp.	Time	Temp.	Time
319.0	T5	-	-	400°F	8 hrs
319.0	Т6	940°F	12 hrs	310°F	2 - 5 hrs
355.0	T51	-	-	310°F	2 - 5 hrs
355.0	T6	980°F	12 hrs	310°F	3 - 5 hrs
355.0	T7	980°F	12 hrs	440°F	3 - 5 hrs
355.0	T71	980°F	12 hrs	475°F	4 - 6 hrs
C355.0	T6	980°F	12 hrs	310°F	3 - 5 hrs
356.0	T51	- \	-	440°F	7 - 9 hrs
356.0	T6	1000°F	12 hrs	310°F	3 - 5 hrs
356.0	T7	1000°F	12 hrs	400°F	3 - 5 hrs
356.0	T71	1000°F	10 - 12 hrs	475°F	3 hrs
A356.0	T6	1000°F	12 hrs	310°F	3 - 5 hrs
535.0	T5	<u> </u>	-	750°F	5 hrs
713.0	T5		-	315°F	6 - 8 hrs
			or	Room Temp.	21 days





