

**Table A.3.6
STRENGTHS OF ALUMINUM CASTINGS**

Alloy	Temper	Casting Type	F_{tu} ksi	F_{ty} ksi	Note
356.0	T6	sand	22.5	15	
A356.0	T6	sand	25.5	18	
354.0	T61	permanent mold	36	27.7	(1)
			47	36	(2)
			43	33	(3)
C355.0	T61	permanent mold	30	22.5	(1)
			40	30	(2)
			37	30	(3)
356.0	T6	permanent mold	24.7	16.5	(1)
A356.0	T61	permanent mold	28.5	19.5	(1)
			33	26	(2)
			28	26	(3)
A357.0	T61	permanent mold	33.7	27	(1)
			46	36	(2)
			41	31	(3)
359.0	T61	permanent mold	33.7	25.5	(1)
			45	34	(2)
			40	30	(3)
359.0	T62	permanent mold	35.2	28.5	(1)
			47	38	(2)
			40	30	(3)
535.0	F	permanent mold	26.2	13.5	(1)

See Table A.3.6M

**Table A.3.6M
STRENGTHS OF ALUMINUM CASTINGS**

Alloy	Temper	Casting Type	F_{tu} MPa	F_{ty} MPa	Note
356.0	T6	sand	154	105	
A356.0	T6	sand	176	124	
354.0	T61	permanent mold	248	191	(1)
			324	248	(2)
			297	228	(3)
C355.0	T61	permanent mold	207	155	(1)
			276	207	(2)
			255	207	(3)
356.0	T6	permanent mold	170	110	(1)
A356.0	T61	permanent mold	196	134	(1)
			228	179	(2)
			193	179	(3)
A357.0	T61	permanent mold	232	186	(1)
			317	248	(2)
			283	214	(3)
359.0	T61	permanent mold	232	175	(1)
			310	234	(2)
			276	207	(3)
359.0	T62	permanent mold	243	196	(1)
			324	262	(2)
			276	207	(3)
535.0	F	permanent mold	180	93	(1)

Notes

1. These strengths apply at any location in the casting if the purchaser does not specify that test specimens be cut from castings.
2. These strengths apply in the locations specified by the purchaser if the purchaser specifies such locations. At other locations, the strengths in (1) apply.
3. These strengths apply anywhere in the casting if the purchaser specifies that these strengths shall be met in specimens cut from the casting without designating a location.