



# Aluminum Die Casting

Material	Alloy	Elongation %	Tensile Strength PSI x 10 <sup>3</sup>	Yield Strength (0.2%) PSI x 10 <sup>3</sup>	Impact Strength ft lb	Shear Strength PSI x 10 <sup>3</sup>	Hardness Brinell (HB)
Aluminum Die Casting Metals	<a href="#">Aluminum Alloy A380</a>	35	47	23	3	27	80
Aluminum Die Casting Metals	<a href="#">Aluminum Alloy 383 (ADC12)</a>	35	45	22	3	-	75
Aluminum Die Casting Metals	<a href="#">413</a>	25	43	21	-	25	80
Aluminum Die Casting Metals	<a href="#">A360</a>	35	317	170	-	180	75

## INTERNATIONAL ALUMINUM ALLOY SPECIFICATION CONVERSION CHART

USA AA/ASTM	USA SAE	CHINA	UK	Japan JIS H 5302	ISO	EN AC-	France	Germany	UNS	ASTM B85	Former SAE J452	DIN 1725	Italy UNI
<b>A360</b>	309	YL104 YZA1Si10Mg	LM 9	ADC3	Al-Si10Mg	43400	A-S10G	G-AlSi10Mg -233	A13600	SG100A	309	233	3049
<b>383</b>	383	YL113	LM 2	ADC12	Al-Si10Cu2Fe	46100	A-S9U3-Y4	-	A03830	SC102A	383	226A	5076
<b>A380</b>	306	YL112 YZA1Si9Cu4	LM 24	ADC10	Al-Si8Cu3Fe	46500	A-S9U3A-Y4	G-AlSi8Cu3 -226	A13800	SC84A	306	226A	5075 3601
<b>413</b>	-	YL108 YZA1Si12Cu2	LM 6	ADC1	Al-Si12 Al-Si12Fe	47100	AS 13	G-AlSi12 -230	A04130	S12B	-	-	4514
<b>A413</b>	305	YL102 YZA1Si12	LM 20	ADC1	Al-Si12Cu Al-Si12CuFe	44300	A-S12-Y4	G-AlSi12(Cu) -231	A14130	S12A	305	231D	5079