



# Zinc and Aluminum Characteristics

**1 = Most Desirable**

**5 = Least Desirable**

ZINC							
	No. 2	No. 3	No. 5	No 7	ZA-8	ZA-12	ZA-27
Resistance to Hot Cracking	1	1	2	1	2	3	4
Pressure Tightness	3	1	2	1	3	3	4
Casting Ease	1	1	1	1	2	3	3
Part Complexity	1	1	1	1	2	3	3
Dimensional Accuracy	4	2	2	1	2	3	4
Dimensional Stability	2	3	3	2	2	2	1
Corrosion Resistance	2	3	3	2	2	2	1
Resistance to Cold Defects	2	2	2	1	2	3	4
Machining Ease and Quality	1	1	1	1	2	3	4
Polishing Ease and Quality	2	1	1	1	2	3	4
Electroplating Ease and Quality	1	1	1	1	1	2	3
Anodizing (Protection)	1	1	1	1	1	2	2
Chemical Coating (Protection)	1	1	1	1	2	3	3

ALUMINUM						
	360	380	383	384	390	413
Resistance to Hot Cracking	1	2	1	2	4	1
Pressure Tightness	2	2	2	2	4	1
Die Filling Capacity	3	2	1	1	1	1
Anti-Soldering to the Die	2	1	2	2	2	1
Corrosion Resistance	2	4	3	5	3	2
Machining Ease and Quality	3	3	2	3	5	4
Polishing Ease and Quality	3	3	3	3	5	5
Electroplating Ease and Quality	2	1	1	2	3	3
Anodizing (Appearance)	3	3	3	4	5	5
Chemical Oxide Protective Coat	3	4	4	5	5	3
Strength at Elevated Temperatures	1	3	2	2	3	3