



Extruded products alloys

Alloy	Description	Application
6063	6063 alloy is the most common used heat treatable with very similar performance as 6060. It is an ideal alloy for very complex cross sections and has a very good anodizing response as well.	Aluminum window and door Tube for irrigation systems Curtain Walls Carpet edging Railing and fences Applications where surface finish is important.
6061	6061 is a heat treatable alloy with mechanical properties slightly lower than 6062. It has good corrosion resistance but like 6062 its extruded surface finish is not as good as 6060.	Transportation Marine Structural members

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6060	6060 alloy is one of the most common alloys of the 6000 series.It is a heat treatable alloy with very good corrosion resistance and weldability.It is commonly used in window and door frames in developed countries with a very good anodizing response.	Architectural applications Electrical components Lighting,furniture and picture frames Capet edging Railing and fences Applications where surface finish is important.
6005A	6005A is not good for thin walled or complicated extrusions,however it has the best extrusion characteristics and mill surface finish.Good corrosion resistance and weldability.	Ladders Transport applications Platforms Tubes and hollow sections Applications that require greater strength than 6060 or 6063 alloy
6082	6082 has excellent corrosion resistance and the highest strength of the 6000 series structural alloys.but its surface finish is not as good as alloys such as 6060 and 6063.It could replace 6061 in many applications,with good weldability.	Highly stressed application Bridges Cranes Marine applications Other transport application

Chemical composition table

Alloy	Mg	Mn	Fe	Si	Cu	Zn	Cr	Mn+Cr	Ti	Others	Total other	Al
6063	0.45-0.90	≤0.10	≤0.35	0.20-0.60	≤0.10	≤0.10	≤0.10		≤0.10	≤0.05	≤0.15	Rem.
6061	0.80-1.20	≤0.15	≤0.70	0.40-0.80	0.15-0.40	≤0.25	0.04-0.35		≤0.15	≤0.05	≤0.15	Rem.
6060	0.30-0.60	≤0.10	0.10-0.30	0.30-0.60	≤0.10	≤0.15	≤0.05		≤0.10	≤0.05	≤0.15	Rem.
6005A	0.40-0.70	≤0.50	≤0.35	0.50-0.90	≤0.30	≤0.20	≤0.30	0.12-0.50	≤0.10	≤0.05	≤0.15	Rem.
6082	0.60-1.20	0.40-1.00	≤0.50	0.70-1.30	≤0.10	≤0.20	≤0.25		≤0.10	≤0.05	≤0.15	Rem.