

ASIAN EXTRUSIONS PRIVATE LIMITED

<u>Technical Data Sheet # 1 : Some Alloys and Their Applications</u>

	Alloy Designation		ce		Chemical Composition (wt%)																			
SI. No	IS	AA	Spec Reference	Cu		Mn			Si	Mg		Fe		Zn		Ti		Cr		Others			Remarks	Applications
			Rei	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	each (max)	Total (max)	Al		
		1100	IS	-	0.10	-	0.10	-	0.50	-	-	-	0.60	-	-	-	-	-	-	-	-	99%	Ti+V = 0.07	Panelling & moulding, refrigeration tubing, equipmen for chemical, food and brewing industrial packaging cooking utensils, architechtural and builder's
1	19000		AA	0.05	0.20	-	0.05	0.05 Si + Fe together 0.95 max						-	0.10	-	-	-	-	-	-	99%	Ti+V = 0.07	hardware, deep drawn parts, welding wire, cladding, electrical applications.
2	19500	1050	IS	-	0.05	-	0.05	-	0.30	-	-	-	0.40	- 1	1	1	-	-	-	-	-	99.50%	-	Corrosion resistant cladding on stronger alloys impact extruded containers; food, brewing and processing equipment; tanks & pipes, marine fittings, reflectors, presses and anodized utility items
			AA	-	0.05	-	0.05	-	0.25	1	0.05	-	0.40	1	0.05	ı	0.03	-	-	0.03	-	99.50%	V = 0.05 max	
3	19501	1350	IS	-	0.04	-	0.02	-	0.15	-	-	-	0.35	-	0.02	-	-	-	0.02	0.03	0.10	99.50%	Ti+V = 0.02	Electrical application
	19301	1330	AA	-	0.05	-	0.01	-	0.10	-	-	-	0.40	-	0.05	-	-	-	0.01	0.03	0.10	99.50%	Ti+V = 0.02	
4	24345	2014	IS	3.80	5.00	0.30	1.20	0.50	1.20	0.20	0.80	-	0.70	-	0.20	-	0.30	-	0.30	0.05	0.15	Rem	Tthe total content of grain refining element does not exceded 0.30%	Heavy duty forging, structures with high mechanical properties, aircraft application of clad sheets, extrusions and armaments
4	31000	3003	IS	-	0.10	0.80	1.50	-	0.60	-	0.10	-	0.70	-	0.20		0.20	-	0.20	0.03	0.10	Rem	Ti + Cr = 0.20	Moderate strength applications for chemical equipment, irrigation tubing, heat exchangers, furnitures, condenser, air-conditioning, ducting, pressure vessels, detonator caps, vehicle panneling & etc
			AA	0.05	0.20	1.00	1.50	-	0.60	-		-	0.70	-	0.10	-	-	-	-	0.05	0.15	Rem	Ti + Cr = 0.50	
5	52000	5052	IS	-	0.10	-	0.50	-	0.60	1.70	2.60	-	0.50	-	0.20	-	0.20	-	0.25	0.03	0.10	Rem	Cr + Mn = 0.50	Panneling & structures, sheet metal work and domestic applicances, marine application like sheathing/lining of boat bottm &etc
	·		AA	-	0.10	-	0.10	-	0.25	2.20	2.80	-	0.40	-	0.10			0.15	0.35	0.05	0.15	Rem	-	
6	63400	6063	IS	-	0.10	-	0.30	0.30	0.70	0.40	0.90	-	0.60	-	0.20	-	0.20	-	0.10	0.03	0.10	Rem	-	Architectural uses and other similar applications where surface finish is important and medium strength would suffice.
			AA	-	0.10	-	0.10	0.20	0.60	0.45	0.90	-	0.35	-	0.10		0.10		0.10	0.05	0.15	Rem	-	
7	64430	6351	IS	-	0.10	0.40	1.00	0.60	1.30	0.40	1.20	-	0.60	-	0.10	•	0.20	-	0.25	0.03	0.10	Rem	-	Structural applications such as road and rail transport vehicles, bridges, cranes, roof trusses, rivets & etc, cargo containers, milk containers, deep-drawn containers and flooring.
			AA	-	0.10	0.40	0.80	0.70	1.30	0.40	0.80	-	0.50	-	0.20	-	0.20	-	-	0.05	0.15	Rem	-	
8	65032	6061	IS	0.15	0.40	0.20	0.80	0.40	0.80	0.70	1.20	-	0.70	-	0.20	-	0.20	0.15	0.35	0.03	0.10	Rem	Either Mn or Cr shall be present	Structural applications such as road and rail transport vehicles, bridges, cranes, roof trusses, rivets & etc, cargo containers, milk containers, deep-drawn containers and flooring.
			AA	0.15	0.40	-	0.15	0.40	0.80	0.80	1.20	-	0.70	-	0.25	-	0.15	0.04	0.35	0.05	0.15	Rem	-	
9	63401	6101	IS	-	0.05	-	0.03	0.30	0.70	0.40	0.90	-	0.50	-	0.10	-	0.10	-	0.03	0.03	0.10	Rem	-	Bus bar application
<u> </u>	,		AA		0.10	-	0.03	0.30	0.70	0.35	0.80	-	0.50	-	0.10	-	-	-	0.03	0.03	0.10	Rem	-	

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