

1XXX Series

In 1XXX series alloy range, we can supply material in 1060, 1050, 1100 and 1200.

Alloy 1060

Chemical Composition - AA 1060

Alloy	Fe	Si	Mg	Mn	Cu	Zn	Ti	Cr	Each	Al
1060 (min)	0.15	0.10	0.01	0.01	0.01	0.01	0.020	Trace	0.01	99.60
1060 (max)	0.20	0.15	0.03	0.03	0.05	0.03	0.030	Trace	0.05	Remainder

*The given data is in %

Mechanical Properties - AA 1060

Alloy	Temper	UTS (Mpa)		% Elongation		
		Min	Max	0.5 mm - 0.8 mm	0.81 mm - 1.30 mm	1.30 mm - above mm
1060	O	55	75	25	25	30
	H12	75	110	6	6	7
	H14	90	120	5	5	6
	H16	95	130	4	4	4
	H18	130	---	3	3	3

Characteristic – Alloy 1060

Corrosion Resistance	Excellent
Anodizing	Very Good
Formability	Good
Machinability	Good
Weldability	Good

Alloy 1050

Chemical Composition - AA 1050

Alloy	Fe	Si	Mg	Mn	Cu	Zn	Ti	Cr	Each	Al
1050 (min)	0.15	0.10	0.01	0.01	0.01	0.01	0.020	Trace	0.01	99.50
1050 (max)	0.25	0.20	0.03	0.03	0.05	0.03	0.030	Trace	0.05	Remainder

*The given data is in %

Mechanical Properties - AA 1050

Alloy	Temper	UTS (Mpa)		% Elongation		
		Min	Max	0.5 mm - 0.8 mm	0.81 mm - 1.30 mm	1.30 mm - above
1050	O	55	75	25	25	30
	H12	75	110	6	6	7
	H14	90	120	5	5	6
	H16	95	130	4	4	4
	H18	130	---	3	3	3

Characteristic – Alloy 1050

Corrosion Resistance	Excellent
Anodizing	Very Good
Formability	Good
Machinability	Good
Weldability	Good

Alloy 1100

Chemical Composition - AA 1100

Alloy	Fe	Si	Mg	Mn	Cu	Zn	Ti	Cr	Each	Al
1100 (min)	0.35	0.25	0.01	0.01	0.05	0.01	0.020	Trace	0.05	99.00%
1100 (max)	0.50	0.35	0.03	0.05	0.20	0.05	0.030	Trace	0.15	remainder

*The given data is in %

Mechanical Properties - AA 1100

Alloy	Temper	UTS (Mpa)		% Elongation		
		Min	Max	0.5 mm - 0.8 mm	0.81 mm - 1.30 mm	1.30 mm - above
1100	O	75	110	20	25	29
	H12	95	130	5	6	7
	H14	110	145	3	4	5
	H16	130	165	2	3	4
	H18	150	---	2	2	3

Characteristic – Alloy 1100	
Corrosion Resistance	Excellent
Anodizing	Good
Formability	Good
Machinability	Good
Weldability	Good

Alloy 1200

Chemical Composition - AA 1200										
Alloy	Fe	Si	Mg	Mn	Cu	Zn	Ti	Cr	Each	Al
1200 (min)	0.30	0.20	0.01	0.01	0.01	0.01	0.020	Trace	0.05	99.00%
1200 (max)	0.60	0.30	0.20	0.10	0.10	0.10	0.030	Trace	0.15	Remainder

*The given data is in %

Mechanical Properties - AA 1200						
Alloy	Temper	UTS (Mpa)		% Elongation		
		Min	Max	0.5 mm - 0.8 mm	0.81 mm - 1.30 mm	1.30 mm - above
1200	O	70	110	20	25	29
	H12	90	130	5	6	8
	H14	105	140	3	4	5
	H16	125	150	2	3	4
	H18	140	---	2	2	3

Characteristic – Alloy 1200	
Corrosion Resistance	Excellent
Anodizing	Good
Formability	Good
Machinability	Good
Weldability	Good