

## 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
<b>1060 (min)</b>	0.15	0.10	0.01	0.01	0.01	0.01	0.020	Trace	0.01	99.60
<b>1060 (max)</b>	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
<b>1060</b>	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

<b>Corrosion Resistance</b>	Excellent
<b>Anodizing</b>	Very Good
<b>Formability</b>	Good
<b>Machinability</b>	Good
<b>Weldability</b>	Good

### Alloy 1050

**Chemical Composition - AA 1050**

Alloy	Fe	Si	Mg	Mn	Cu	Zn	Ti	Cr	Each	Al
<b>1050 (min)</b>	0.15	0.10	0.01	0.01	0.01	0.01	0.020	Trace	0.01	99.50
<b>1050 (max)</b>	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

<b>Corrosion Resistance</b>	Excellent
<b>Anodizing</b>	Very Good
<b>Formability</b>	Good
<b>Machinability</b>	Good
<b>Weldability</b>	Good

#### Alloy 1100

### Chemical Composition - AA 1100

Alloy	Fe	Si	Mg	Mn	Cu	Zn	Ti	Cr	Each	Al
<b>1100 (min)</b>	0.35	0.25	0.01	0.01	0.05	0.01	0.020	Trace	0.05	99.00%
<b>1100 (max)</b>	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