

3XXX Series

In 3XXX series alloy range, we can supply material in 3003, 3004, 3005, 3103 and 3105.

Alloy 3003

Chemical Composition - AA 3003

Alloy	Fe	Si	Mg	Mn	Cu	Zn	Ti	Cr	Each	Al
3003 (min)	0.30	0.20	0.01	1.0	0.05	0.01	0.020	Trace	0.05	Remainder
3003 (max)	0.70	0.40	0.05	1.5	0.20	0.10	0.030	Trace	0.15	Remainder

*The given data is in %

Mechanical Properties - AA 3003

Alloy	Temper	UTS (Mpa)		% Elongation		
		Min	Max	0.5 mm - 0.8 mm	0.81 mm - 1.30 mm	1.30 mm - above
3003	O	95	135	20	23	24
	H12	115	160	6	7	8
	H14	140	180	4	4	5
	H16	165	205	3	3	4
	H18	180	----	2	2	3

Characteristic – Alloy 3003

Corrosion Resistance	Good
Anodizing	Good
Formability	Good
Machinability	Good
Weldability	Good

Alloy 3004

Chemical Composition - AA 3004

Alloy	Fe	Si	Mg	Mn	Cu	Zn	Ti	Cr	Each	Al
3004 (min)	0.40	0.15	0.80	1.0	0.05	0.01	0.020	Trace	0.05	Remainder
3004 (max)	0.70	0.30	1.30	1.5	0.20	0.20	0.030	Trace	0.15	Remainder

*The given data is in %

Mechanical Properties - AA 3004

Alloy	Temper	UTS (Mpa)		% Elongation		
		Min	Max	0.5 mm - 0.8 mm	0.81 mm - 1.30 mm	1.30 mm - above
3004	O	125	165	16	18	19
	H12	150	210	5	5	6
	H14	190	245	3	4	5
	H16	215	275	2	2	3
	H18	245	-	1	1	1

Characteristic – Alloy 3004

Corrosion Resistance	Good
Anodizing	Good
Formability	Good
Machinability	Good
Weldability	Good

Alloy 3005

Chemical Composition - AA 3005

Alloy	Fe	Si	Mg	Mn	Cu	Zn	Ti	Cr	Each	Al
3005 (min)	0.30	0.20	0.020	1.0	0.05	0.01	0.020	Trace	0.05	Remainder
3005 (max)	0.70	0.60	0.60	1.5	0.30	0.20	0.030	Trace	0.15	Remainder

*The given data is in %

Mechanical Properties - AA 3005

Alloy	Temper	UTS (Mpa)		% Elongation		
		Min	Max	0.5 mm - 0.8 mm	0.81 mm - 1.30 mm	1.30 mm - above
3005	O	117	165	16	18	20
	H12	137	185	2	3	4
	H14	165	213	1	2	3
	H16	192	240	1	2	3
	H18	220	-	1	2	2

Characteristic – Alloy 3005	
Corrosion Resistance	Good
Anodizing	Good
Formability	Good
Machinability	Good
Weldability	Good

Alloy 3103

Chemical Composition - AA 3103

Alloy	Fe	Si	Mg	Mn	Cu	Zn	Ti	Cr	Each	Al
3103 (min)	0.03	0.020	0.01	0.80	0.01	0.01	0.020	trace	0.05	Remainder
3103 (max)	0.60	0.70	0.10	1.50	0.10	0.20	0.030	Trace	0.15	Remainder

*The given data is in %

Mechanical Properties - AA 3103

Alloy	Temper	UTS (Mpa)		% Elongation		
		Min	Max	0.5 mm - 0.8 mm	0.81 mm - 1.30 mm	1.30 mm - above
3103	O	90	130	20	23	24
	H12	115	150	5	6	7
	H14	130	180	3	4	5
	H16	150	195	2	3	4
	H18	17	----	2	2	3

Characteristic – Alloy 3103

Corrosion Resistance	Good
Anodizing	Good
Formability	Good
Machinability	Good
Weldability	Good

Alloy 3105

Chemical Composition - AA 3105

Alloy	Fe	Si	Mg	Mn	Cu	Zn	Ti	Cr	Each	Al
3105 (min)	0.30	0.20	0.20	0.30	0.05	0.10	0.020	Trace		Remainder
3105 (max)	0.70	0.40	0.80	0.80	0.10	0.10	0.030	Trace		Remainder

*The given data is in %

Mechanical Properties - AA 3105

Alloy	Temper	UTS (Mpa)		% Elongation		
		Min	Max	0.5 mm - 0.8 mm	0.81 mm - 1.30 mm	1.30 mm - above
3105	O	115	150	16	16	18
	H12	140	200	5	5	6
	H14	180	235	3	4	5
	H16	205	260	2	2	3
	H18	240	---	1	1	1

Characteristic – Alloy 3105

Corrosion Resistance	Good
Anodizing	Good
Formability	Good
Machinability	Good
Weldability	Good