



JINDAL ALUMINIUM LTD (ROLLING MILL DIVISION).

KIADB IND.AREA, Tumkur Road,Dabaspete,Bangalore-562111

Product Name:	ALUMINIUM SHEET		
Specification:	0.3 to 6 mm thickness		
Alloy & Temper	AA-3105 / 31500B	Temper	0, H12 OR H22 , H14 OR H24, H16 OR H26, H18 OR H28

CERTIFICATE OF ANALYSIS

PHYSICAL & MECHANICAL PROPERTIES					
SL.NO	DESCRIPTION	UNIT	LIMITS	OBSERVATION	
1	Alloy & Temper	-----	-----	AA-3105/31500B	0
2	U.T.S	MPa	115 - 150 Mpa	Complies	
3	Yield Strength	MPa	NA	NA	
4	Elongation	%	Minimum- 16 - 20 % (As per thickness)	Complies	
PHYSICAL & MECHANICAL PROPERTIES					
SL.NO	DESCRIPTION	UNIT	LIMITS	OBSERVATION	
1	Alloy & Temper	-----	-----	AA-3105/31500B	H12 OR H22
2	U.T.S	MPa	140 - 200 Mpa	Complies	
3	Yield Strength	MPa	NA	NA	
4	Elongation	%	Minimum- 5 - 8% (As per thickness)	Complies	
PHYSICAL & MECHANICAL PROPERTIES					
SL.NO	DESCRIPTION	UNIT	LIMITS	OBSERVATION	
1	Alloy & Temper	-----	-----	AA-3105/31500B	H14 OR H24
2	U.T.S	MPa	180 - 235 Mpa	Complies	
3	Yield Strength	MPa	NA	NA	
4	Elongation	%	Minimum- 3 - 5 % (As per thickness)	Complies	
PHYSICAL & MECHANICAL PROPERTIES					
SL.NO	DESCRIPTION	UNIT	LIMITS	OBSERVATION	
1	Alloy & Temper	-----	-----	AA-3105/31500B	H16 OR H26
2	U.T.S	MPa	205 - 260 Mpa	Complies	
3	Yield Strength	MPa	NA	NA	
4	Elongation	%	Minimum- 2 to 4 % (As per thickness)	Complies	
PHYSICAL & MECHANICAL PROPERTIES					
SL.NO	DESCRIPTION	UNIT	LIMITS	OBSERVATION	
1	Alloy & Temper	-----	-----	AA-3105/31500B	H18 OR H28
2	U.T.S	MPa	240 Mpa (Min)	Complies	
3	Yield Strength	MPa	NA	NA	
4	Elongation	%	Minimum- 1 to 2 % (As per thickness)	Complies	
DIMENSIONAL TOLERANCES					
1	Thickness	mm	0.3 to 0.91 mm - (+/- 0.02 mm), 0.92 to 1.4 mm - (+/-0.03 mm) , 1.41 to 2 mm (+/- 0.04 mm) , 2 to 3 mm (+/-0.050 mm) , 3.01 to 4 mm (+/- 0.075 mm) , 4.01 to 6 mm (+/- 0.1 mm)		
2	Width	mm	For 12.5 to 152.4 mm (+/-0.25 mm), For 152.4 to 304.8 mm(+/-0.4 mm) , For 304.8 to 609.6 (+/-0.8mm), For 609.6 to 1219.2 mm - (+/-1 mm) , For 1219.2 to 1524 mm (-1 /+ 2 mm)		
3	Length	mm	≤ 1220 mm - (+/-2 mm) , 1220 to 2440 mm - (+ / - 3 mm), 2440 to 3660- (-3 / + 5 mm) , ≥ 3660 mm (-4 / + 7 mm)		
ALLOY COMPOSITION:					
AA	Si	Fe	Cu	Mn	Mg
AA-3105/31500B	0.4 (Max)	0.7 (Max)	0.1 (Max)	0.3 - 0.8	0.2 - 0.8
Cr	Zn	Ti	Others	Al	
0.1 (Max)	0.2 (Max)	--	-	Remainder	

REMARKS: THE CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES MEETS AS PER -IS737-2008

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