JINDAL ALUMINIUM LTD, ROLLING & EXTRUSION

REV NO:00

REV DATE:16.08.2021

ROUTING -PROCESS DESIGN FOR 1050-H14-1.5 / 2 MM - ANODIZING QUALITY

1.0 Purpose

To set up a process route practice of 1050/H14 to meet the anodizing quality requirements.

2.0 Scope

Supply of Aluminium coil/sheet as per below specification AA1050 / 'H14' / 1.50 mm & 2.00 mm

3.0 Responsibility & Authority

Managers/Section-in-Charge of the departments using this process are responsible for implementing this procedure.

4.0 PPEs

1. Safety helmet 2. Safety shoes 3. Gloves (if required)

5.0 Process Method

Caster coil is to be selected from standard internal cast coil composition.

Chemical Compositions Limit-Internal									
Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
AA1050	0.2max	0.35 max	0.01 max	0.01 max	0.01 max	0.01 max	0.01 max	0.020- 0.03	99.50 min

Process route for AA1050 / H14 is followed - For 1.5 mm (UTS to achieve 100-135 MPa, Elongation Min 6%)

CAST COIL => CRM => 2.73 mm => TA* => CRM => FG (1.5 mm) => TLL => CTL/SL => Packing *TA Annealing cycle: As per SOP

Process route for AA1050 / H14 is followed - For 2.0 mm (UTS to achieve 100-135 MPa, Elongation Min 6%)

CAST COIL => CRM => 3.65 mm => TA => CRM => FG (2.0mm) => TLL => CTL/SL => Packing

- TA Annealing cycle: 520° C for 12 hrs
- Casting speed (Roll speed) to be maintained at 900-1050 mm/min.
- Cast coil thickness to be maintained at 6.5 mm +/- 0.5 mm.
- Grain should be fine at caster coil & FG gauge. Refer attached Casting & Rolling parameters.

APPROVED BY, PROCESS REVIEW COMMITTEE

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