ME								INDIA P	VT L	TD		
IVIE					CON	TROL P	LAN					
	totype an Number : I	Pre Launch		Production Key Contact / Phone :Mr Santhosh-86053			929	F/QA/ 025 Rev. 04 Date: 20.07.2021 Customer Engineering Approval/Date(if Reqd.)				
Part Number/Description : All revits					Supplier/Plant Approval Date				Customer Quantity Approval/Date(if Reqd.)			
Customer/Plant : All Customers					Other Approval Date(if reqd.)				Other Approval Date(if reqd.)			
, actornor		iotomoro	Characteris			- cqu.,	1		Methods			
Part / Process Number	Process Name / Operation Description	Machine, Device, Jig, Tools for Mfg.	No.	Product	Process	Spec Char. Class	Product / Process specification / Tolerance	Evaluation Measurement Technique	Sample			Reaction plan
									Size	Freq.	Control Method	Reaction plan
10	Receiving inspection	Visual & weighing scale	1	inspected material			No crack/rust/bend	Visual	Every Lot Every lot checking 10 nos in HRB Every Lot		Rockwell hardness tester calibraton/Weighing scale calibration as per plan	Incoming material hardness ran exceptable within 5 HRB. In cas above 5 HRB material will be tak for revalidation & trails.
			2	incoming inspection	checked as per SOP (WI PDN-007)		92-96 HRB (SAE1010)	Rockwell Hardness Tester HRB scale				
			3	Weight			As per received tracebility tag	Weighing scale				
20	Loading	Manual rope crane	1	Stacked material			Adequate spacing	Visual	Every Lot		As per Procedure	communicate to Shift supervisor/supervisor
30	Annealing	V R Annealing furnace (AF-01)	1	Annealing	Annealing Temp - 550 °c to 680°c Annealing Time - 60 to 180 minits (As per annexture - 03)	0	Hardness HRB - 50 TO 75 (As per annexture - 03)	Timer, Temperature Controller , Alaram etc.	Every lot checking (5 nos from each Tray)		Inprocess record	Rework the lot
				Quenching	Air Cooling							
40	Unloading		1	Force cooling	Fan circulation	(1)	15 mints	Detection Alarm	Every lot		Production Register	Communicate to Shift supervisor
			2	Natural cooling stablization	Natural cooling	(1)	10 mints	Detection Alarm				
50	Inspection	Rockwell Hardness Tester	1	Hardness	Checking as per SOP (WI-PDN -007)		1) Hardness-50-75 HRB (As per annexture - 03)	Rockwell Hardness Tester	Every lot checking (5 nos from each Tray)		Test Report,Calibration as per plan	Rework for high hardness
		Microscope	2	Microstructure	Checking as per SOP (WI-PDN -06)		Annealed micro ferrite +pearlite	Microscop	As per customer requirement			
60	Ready for Despatch	Weighing scale	1	Qty/ Weight	-		Qty/Weight Verify	Weighing scale	100%		Weighing scale calibration as per plan	weight difference
Date		Rev No	Description						Authorised By :			
	3/2020				e excepable within 5 HRE							
7/20/2021			Temperature reduced (550-680 °c) & soaking time increased 60-180 mints.							1	T	T
01.08.2022 5		5	Unloading product process/ parameter updation									