

POTENTIAL FAILURE MODE & EFFECTS ANALYSIS

Process FMEA

Item	53650073-Mould3		Key date:2017-3-6		Prepared By		Amy Mi		PFMEA Number		2017/3/6						
Core Team	Ricky Chan, JackyGu,Amy M		Eric Tang,Jo Liu		Page		1						PFMEA Date(Orig)		(Rev.1)		
													2017/3/6				
Sequence number	Process Function Requirements	POTENTIAL FAILURE MODE	POTENTIAL EFFECT(S) OF FAILURE	S L E A V S	POTENTIAL CAUSE(S)/MECHANISM(S) OF FAILURE	C U P U	CURRENT RPROCESS CONTROLS PREVENTION	CURRENT PROCESS CONTROLS DETECTION	E T E	R P N	RECOM MENDE D	RESPONSIBILITY & TARGET COMPLETION DATE	ACTION RESULTS				
													ACTION TAKEN	SEV	OCC	DET	RPN
10	Material Receiving	Chemical composition not right Mechanical performance not right	Scrap Re heattreatment	6	Loss control of quality from supplier	2	It should purchase stock and timed check the qualified supplier	Check the QC guarantee	5	60	N/A	N/A	N/A				
20	Dissolved Material, Die Castin	Furnace Temperatur out of Requirement	Large Rejection Products	4	Wrong Setting Furnace Temperature	3	According to Die-casting Process Card	First check and note/check oneself/make check one's rounds and note	4	48	N/A	N/A	N/A				
		Feeding Parameter Error	Large Rejection Products	4	Wrong Setting Parameter Error	3	According to Die-casting Process Card	First check and note/check oneself/make check one's rounds and note	4	48	N/A	N/A	N/A				
		Wrong Die-casting Time	Large Rejection Products	4	Wrong Setting Time	3	According to Die-casting Process Card	First check and note/check oneself/make check one's rounds and note	4	48	N/A	N/A	N/A				
		Weight out of Requirement	Large Rejection Products	4	Wrong Setting Process Parameter	3	According to Die-casting Process Card	First check and note/check oneself/make check one's rounds and note	4	48	N/A	N/A	N/A				
		Off-measurement	Influence the Next Process	4	Wrong Setting Process Parameter	3	According to Die-casting Process Card	First check and note/check oneself/make check one's rounds and note	4	48	N/A	N/A	N/A				
30	Scrap edge	Have Casting Fin	Influence the Appearance and Quality	3	Mould Wear	3	Polishing,Plating or Modifying the Mould	First check and note/check oneself/make check one's rounds and note	4	36	N/A	N/A	N/A				
40	Debur	Have burrs	Influence the Appearance and Quality	3	Mould Wear	3	missing debur	First check and note/check oneself/make check one's rounds and note	4	36	N/A	N/A	N/A				
50	Shotblasting	Have burrs and Surface Damage	Affecting the Appearance and Quality	3	Not Enough Shotblasting or Putting too Many	3	According to the Operating Instructor	First check and note/check oneself/make check one's rounds and note	4	36	N/A	N/A	N/A				
		No Shotblasting	Affecting the Appearance and Quality	3	Not Enough Shotblasting or Putting too Many	3	According to the Operating Instructor	First check and note/check oneself/make check one's rounds and note	4	36	N/A	N/A	N/A				
60	CNC	Dimension not well	Scrap	3	Product not put in position	3	According to the Operating Instructor	First check and note/check oneself/make check one's rounds and note	4	36	N/A	N/A	N/A				
		Dimension not well	Scrap	3	Tool wear	3	According to the Operating Instructor	First check and note/check oneself/make check one's rounds and note	4	36	N/A	N/A	N/A				
70	Inspection	Have burrs and Surface Damage	Influence the Appearance and Quality	4	Missing Inspection	3	According to Inspection Instructor	First check and note/check oneself/make check one's rounds and note	4	48	N/A	N/A	N/A				
		Have Porosity	Influence the Quality	5	Measuring Error	3			4	60	N/A	N/A	N/A				
		Dimension not well	Scrap	5	Measuring Error	3			4	60	N/A	N/A	N/A				
80	Packaging	Packing mistakes	Unable fitting	5	Employee misread the label	2	The label be sure in focus, staff should be trained	Make the finished product inspection record	4	40	N/A	N/A	N/A				
		Mislabel	Affected the later process	4	Employee misread the label	2	The label be sure in focus,staff should be trained		4	32	N/A	N/A	N/A				
90	Warehousing	Warehousing mistakes	Unable fitting	5	Employee misread the label	2	The label be sure in focus, staff should be trained	Make the finished product inspection record	4	40	N/A	N/A	N/A				