## Example of an Alliance LLC Process Control Plan for Sintered SmCo Magnets

A11'			Procedure#	ALC-QC-T-C704		Revision	1#
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Control Plan CPN, Sintered			Originator	JZ		Reviewed By	DV
SmCo Grade 2-17			Approved By	МВ		Control State	
Customer Specification			P/N rev				
Inspection Name	Inspection Item	Inspection Standard	Equip/ Gages	Frequency/ Sample size	Reaction for Nonconformance	Result	Inspector
Incoming inspection	Ni powder			1000g/lot	Reject	Incoming	incoming
	Powder	SmCo 2-17 Powder	BH tester	100g/lot	Dojoot '	inspeciton record	inspector
Finished powder inspection	Magnetic properties	Hcj >20 kOe,	Flux meter, BH tester	4 pcs/lot	Notify the operator to correct it immediately, issue disqualification notice, and implement defective parts control procedure	Inspection	Inspector for magnetic properties
		Hcb>9 kOe					
		Br=9.6-11kGs					
		(BH)max >23MGOe					
Before- curing inspection	Unit weight	0.68-0.70g	mass scale		Same as above	Inspection record before curing	Before curing inspector
	Thickness	4.12/3.88mm	Micrometer				
	Appearance	I, NO TOHOWING defects on surface: lost edge/ angle, porosity, scratch, vein, crack 2,Curing tray should be clean, no powder adhering to trays and magnets before	Visual	10 pcs/lot			
After- curing inspectoin	Length	6.11/5.88 mm	Micrometer	10pcs/lot	100% check the nonconformance item, others same as above	After curing inspection record	After curing inspector
	T and W	4.11/3.88	Micrometer	10pcs/lot			
	Appearance	No lost edge/ angle, porosity, scratch, vein, crack, rust	Visual	10pcs/lot			
After- coating inspection	Length	6.12/5.88	Micrometer	AQL II -2.5	Same as above	After coating inspection record	Test room inspector
	T and W	4.12/3.88	Micrometer	AQL II -2.5			
	Appearance	No leak plate, lost edge/angle,porosity,cr ack, protruding, rust, etc.	Visual	100%			
	Anticorrosion status	240hour, 85°C, 85%RH, no rust on the surface	H&T chamber miroscope	4 pcs/shipping lot			
After-mag inspection	Magnetic properties	Retained samples	Flux meter	AQL II -2.5	Same as above	Final inspection record	Final inspector
Revision	Date	Reviser	Content changed				