

Explanation of FSR-Report

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Purpose / target

During the lifecycle of a product sampling reports and documents of product and process are created by the supplier to verify all requirements in the phases **Pre-Sample, First Sample** and **Standard/Re-Sample**.

To achieve a uniform first sample report (FSR) only the template has to be used which is explained in this description. The FSR includes always the coversheet and different verification documents which are attached (like measurement reports, material certifications, process suitability and so on).

The FSR was created on basis of VDA Volume 2.

Terms and definitions

Terms and definitions	Explanation
FSR	First Sample Report
First sample	First Sample will be produced completely under serial manufacturing terms and conditions and will be verified completely. First Samples are different to Pre-Samples.
Pre-Sample	Pre-Samples are products which are not produced on tools and in processes of the series. Pre-Samples are products which are not produced by tools, drawings, processes, terms and conditions of the series.
Re-Sample Sample of a variant	Samples of a variant means the verification of a change of an existing product. This could be: <ul style="list-style-type: none"> • dimensions • physical characteristics • functional characteristics • form and shape • surfaces • color • material and structure of material
SC-test	SC = significant characteristics These are marked in drawings by customer (characteristics relevant for function). These characteristics have to be marked during the development phase. Verification of these characteristics will be done by SPC-Statistical Process Control.
SPC	SPC = <i>statistical process control</i> Tool to control and optimize product and service processes with statistical calculations.
FMEA	Failure mode and effect analysis
WEP/WAP	Goods inwards inspection/outgoing goods inspection
PSO	PSO = Process Sign Off

Scope

This document should help all suppliers of AIXTRON, which are applied to verify all requirements and document this by FSR.

For AIXTRON internal use this document should help to create the formally FSR template.

Responsibilities

The engineering departments of AIXTRON are responsible for technical requirements and specifications.

The logistic department of AIXTRON is responsible for all requirements and specifications of packaging, labeling, conservation and charge carrier.

The quality department of AIXTRON is responsible for the transfer of FSR, control plan and monitoring and analyze test results. They decide further usage.

The purchasing department of AIXTRON is responsible to notice required FSR in request of quotation, scheduling delivery and ordering.

The supplier is responsible to perform the agreed verifications and their documentation. He has to send the documents to AIXTRON quality department before delivery and ask for delivery release.

Content / Description

1. FSR General

FSR comprise cover sheet, the protocol of sampling, the table of contents and the attachments of documentation and test results.

0 – 31 register

0 Cover_Deckblatt	Planning FSR	Attachments	1-7 Product	9 E-Test	10 Operating supplies	12 Customer Standards	20-30 Process	24 FSR-Supply Chain	28 Inspection-Test Equipment	31 Part History
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The supplier gets the FSR with base data filled in by the AIXTRON quality department. All yellow marked fields have to be infilled by the supplier. The rosy marked fields will be infilled by AIXTRON.

Participants of planning meeting:			
Phone:	E-Mail	Department/Function:	Name:

Supplier	AIXTRON
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2. Protocol of planning sampling (FSR-Planning)

Depending on complexity and range of sampling the planning will be discussed and agreed with supplier.

In the case of parts with low complexity or low range of sampling the protocol will be send directly to the supplier by the quality department of AIXTRON.

The supplier agrees his willingness and the feasibility of sampling by signing the FSR.

Minutes of planning of sampling inspection:		Version: <input type="text" value="1"/>	Date: <input type="text" value="XX.XX.XXXX"/>	Date of Sampling: <input type="text" value="XX.XX.2016"/>
Supplier:		AIXTRON:		
Supplier:	<input type="text" value="0"/>	Adress of delivery:	<input type="text" value="AIXTRON SE"/>	
Report-#:	<input type="text" value="0"/>	Date sampling inspection:	<input type="text" value=""/>	
Product description:	<input type="text" value="0"/>	Product description:	<input type="text" value="0"/>	
Aixtron material-#+Version:	<input type="text" value="0"/>	Aixtron material-#+Version:	<input type="text" value="0"/>	
Aixtron drawing-#+Version:	<input type="text" value="0"/>	Aixtron drawing-#+Version:	<input type="text" value="0"/>	
Release Date drawing:	<input type="text" value="0"/>	Release Date drawing:	<input type="text" value="0"/>	
Supplier part-#:	<input type="text" value="0"/>	Sample of variant:	<input type="text" value="nein"/>	



Basic data will be filled by AIXTRON.

Participants of planning meeting:							
Department/Function:	Name:	Phone:	E-Mail	Department/Function:	Name:	Phone:	E-Mail



Important! Responsibility of both parties have to be defined before sampling.

<input type="checkbox"/>	Report of Release of Process and Product	
<input type="checkbox"/>	Report other Samples	
<input checked="" type="checkbox"/>	Sampling	<input type="checkbox"/> Subsequent sample inspection
<input type="checkbox"/>	New Part	<input type="checkbox"/> Longer stoppage of production >12 months
<input type="checkbox"/>	Change of product	<input type="checkbox"/> Change of supply chain
<input type="checkbox"/>	Change of production process	



AIXTRON defines type of report of sampling.

Supplier confirmation:		
The shown samples and their features are manufactured with serial manufacturing equipment in serial environment and at serial manufacturing product or process, we will communicate it before to Aixtron.		
Name:	<input type="text" value=""/>	Note:
Department/Function:	<input type="text" value=""/>	<input type="text" value=""/>
Phone:	<input type="text" value=""/>	
E-Mail:	<input type="text" value=""/>	
Date:	<input type="text" value=""/>	
		Signature:



The supplier confirms feasibility and realization of sampling by signing.

- Level of reference

Level of reference:			
0	1	2	3
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The level of reference defines the necessary verifications, documentation and submission requirements of sampling. The cover sheet has to be sent to AIXTRON always!

D	Realization, documentation and achieving of verification results on supplier side. (in case of need AIXTRON can call for)
P	Realization, documentation of verification results sent to AIXTRON. Achieving on supplier side.

- Requirements

#	Requirements: (Features)	Level of reference:				Technical sample Report:	Sampling variant:	Note:
		0	1	2	3			
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
0	Cover of PPF-report Teil: 1	P	P	P	P	<input type="checkbox"/>	<input type="checkbox"/>	
Product: Geometry, Dimensional Check, Functionality								
1	Geometry, Dimensional Check	D	D	P	P	<input type="checkbox"/>	<input type="checkbox"/>	
a	Geometry, dimensional inspection					<input type="checkbox"/>	<input type="checkbox"/>	
b	Extended geometry, dimensional inspection (all features)					<input type="checkbox"/>	<input type="checkbox"/>	
c	3D-(CMM-) Data					<input type="checkbox"/>	<input type="checkbox"/>	
2	Functional test	D	D	D	P	<input type="checkbox"/>	<input type="checkbox"/>	

- 1) Choose level of reference
- 2) Choose type of sampling
- 3) Define attributes
- 4) If necessary add notes

- Tests at AIXTRON

#	Requirements (Features):	# of samples	Duration in days	Technical sample	Sampling of variant:	Person of contact at AIXTRON
31	<input type="checkbox"/> Integration test			<input type="checkbox"/>	<input type="checkbox"/>	
32	<input type="checkbox"/> Validation of function in Aixtron-system			<input type="checkbox"/>	<input type="checkbox"/>	
33	<input type="checkbox"/> Others			<input type="checkbox"/>	<input type="checkbox"/>	

Not all test can be done on supplier side. It can be necessary that some tests have to be done inside an AIXTRON-system under laboratory conditions or maybe at customer of AIXTRON to qualify and release a product finally.
Such a release can be done later, independent of date of delivery.

3. Cover

1		2		3	
Sender [Empty field]		Recipient AIXTRON SE Product Quality Control Dornkaulstraße 2 92134 Herzogenrath Deutschland		Report of Release of Process and Product Report other Samples <input checked="" type="checkbox"/> Sampling <input checked="" type="checkbox"/> New Part <input type="checkbox"/> Change of product <input type="checkbox"/> Change of production process	
Submission Level: FALSCH <input type="checkbox"/> Subsequent sample inspection <input type="checkbox"/> Longer stoppage of production >12 months <input type="checkbox"/> Change of supply chain <input checked="" type="radio"/> English <input type="radio"/> German					
Attachments					
Product <input type="checkbox"/> 1 Geometry, Dimensional Check <input type="checkbox"/> 2 Functional test <input type="checkbox"/> 3 Material verification <input type="checkbox"/> 4 Tightness test <input type="checkbox"/> 5 Surface Check <input type="checkbox"/> 6 Colorimetry <input type="checkbox"/> 7 Cleaning <input type="checkbox"/> 8 Signing/Safety/Warning Labels <input type="checkbox"/> 9 Electrical test <input type="checkbox"/> 10 Release of operating supplies <input type="checkbox"/> 11 Approval of Coatingsystems <input type="checkbox"/> 12 Customer standards		<input type="checkbox"/> 13 Compliance with law <input type="checkbox"/> 14 Third party certification <input type="checkbox"/> 15 Software test report/Software Version <input type="checkbox"/> 16 Product-/Design-FMEA <input type="checkbox"/> 17 Documentation, Certification, Calibration <input type="checkbox"/> 18 Packaging/Labeling <input type="checkbox"/> 19 Others		Process <input type="checkbox"/> 20 Process-FMEA <input type="checkbox"/> 21 Process flow chart <input type="checkbox"/> 22 Production control plan <input type="checkbox"/> 23 Process-Sign-Off (PSO) <input type="checkbox"/> 24 PPA Supply Chain <input type="checkbox"/> 25 Used Tools <input type="checkbox"/> 26 List of measurement/ test equipment <input type="checkbox"/> 27 Evidence Inspection/Test Equip. Capability <input type="checkbox"/> 28 Design and development release <input type="checkbox"/> 29 Parts history <input type="checkbox"/> 30 Others	
Tests at AIXTRON <input type="checkbox"/> 31 Integration test <input type="checkbox"/> 32 Validation of function in Aixtron-system <input type="checkbox"/> 33 Others					

- 1) Sender: Completely address of supplier
- 2) Recipient: Completely address of AIXTRON
- 3) Cause of sampling:
 - Information
 - Level of reference 0-3, mostly level 2 will be used
- 4) Attachments:
 - Content of sampling (attached documents and documents to inspect)

Supplier:		Bill of delivery-#:		Customer:	AIXTRON SE
Product description:		Delivery quantity:		Report-#:	
Aixtron material-#+Version:		Charge-/Serial-#:		Goods issue-#/-date:	
Aixtron drawing-#+Version:		Weight of sample [kg]:		Order Call-off No./Date:	
Release Date drawing:		Supplier part-#:		Delivery address:	
Supplier Confirmation - It is hereby confirmed that the sampling has been carried out according to AIXTRON's Guideline for Initial sampling.					
Name:		Phone:		Date:	
Department:		Email:		Signature:	
Note:					

- 5) Supplier/ Customer data:
 - Fill out the fields completely
 - Product description, AIXTRON-material number (SAP), AIXTRON-drawing number, quantity, and so on.
- 6) Confirmation supplier:
 - All data of responsible persons
 - Cause of sampling as „Note“ (for example first sample), other notes
 - If documents or verifications are missing explain why on cover sheet

AIXTRON:		Release of Product/ Process:																																					
		Total	Total Process	Total Product	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		
Approved		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conditionally approved		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rejected, re-sampling		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
#-Special Release					Quantity:																Date of Re- Sampling:																		
Name:		Phone:																			Date:																		
Department:		Email:																			Signature:																		
Note:																																							

- 7) Customer decision (will be infilled completely by AIXTRON)

4. Attachments

		Attachments		SAP-Document-#: _____
Our technology. Your future.				
Supplier:		AIXTRON:		
Supplier:	0	Address of delivery:	AIXTRON SE	
Product description:	0	Date sampling inspection:	0	
Aixtron material-#+Vers:	0	Product description:	0	
Aixtron drawing-#+Vers:	0	Aixtron material-#+Version:	0	
Release Date drawing:	0	Aixtron drawing-#+Version:	0	
		Release Date drawing:	0	
Attachment		Version/Date	Type, Scope and marking of attachment	
0	<input checked="" type="checkbox"/> Cover of PPF-report			
1	<input type="checkbox"/> Geometry, Dimensional Check			
1a	<input type="checkbox"/> Geometry, dimensional inspection			
1b	<input type="checkbox"/> Extended geometry, dimensional inspection (all features)			
1c	<input type="checkbox"/> 3D- (CMM-) Data			
2	<input type="checkbox"/> Functional test			
3	<input type="checkbox"/> Material verification			
3a	<input type="checkbox"/> Fire Ratings resp. Flame Class acc. to UL 94 / FM4910			
3b	<input type="checkbox"/> Material test			
3c	<input type="checkbox"/> Material data sheet ISO 10204 3.1			
3d	<input type="checkbox"/> Material data sheet ISO 10204 2.2			
3e	<input type="checkbox"/> Metallographie			
3f	<input type="checkbox"/> Conflictminerals-declaration of conformity			
3g	<input type="checkbox"/> RoHS-declaration of conformity			
4	<input type="checkbox"/> Tightness test			
5	<input type="checkbox"/> Surface Check			

General:

Sent protocol has to have a clearly list of attachments.

- 1) Header (information will be copied automatically from cover sheet)
- 2) Attachments:
 - Mark with a cross
 - Infill Revision / Date
 - Type, range and labeling of attachment

Name:		Phone:	
Department:		Email:	
Note:			
Date:		Signature:	

- 3) All data of responsible person
- 4) Notes (for example completeness)
- 5) Date and signature

5. Product test results

AIXTRON Our technology. Your future.		1-7 Product			SAP-Document-#:		
Supplier:				AIXTRON:			
Supplier:		Address of delivery:		AIXTRON SE			
Product description:		Date sampling inspection:					
Aixtron material-B-Version:		Product description:					
Aixtron drawing-B-Version:		Aixtron material-B-Version:					
Release Date drawing:		Aixtron drawing-B-Version:					
		Release Date drawing:					
Ref. #	Requirements:	Release date:			Result:		Note:
		Part 1	Part 2	Part 3	OK	n-OK	
1					<input type="checkbox"/>	<input type="checkbox"/>	
2					<input type="checkbox"/>	<input type="checkbox"/>	
3					<input type="checkbox"/>	<input type="checkbox"/>	
4					<input type="checkbox"/>	<input type="checkbox"/>	
5					<input type="checkbox"/>	<input type="checkbox"/>	
6					<input type="checkbox"/>	<input type="checkbox"/>	
7					<input type="checkbox"/>	<input type="checkbox"/>	
8					<input type="checkbox"/>	<input type="checkbox"/>	
9					<input type="checkbox"/>	<input type="checkbox"/>	
10					<input type="checkbox"/>	<input type="checkbox"/>	
11					<input type="checkbox"/>	<input type="checkbox"/>	
12					<input type="checkbox"/>	<input type="checkbox"/>	
13					<input type="checkbox"/>	<input type="checkbox"/>	
14					<input type="checkbox"/>	<input type="checkbox"/>	
Supplier:				AIXTRON:			
Note:				Release of Product/Process:			
				Approved		<input type="checkbox"/>	
				Conditionally approved		<input type="checkbox"/>	
				Rejected, resampling		<input type="checkbox"/>	
Note:							
Name:				Name:			
Department/Function:				Department/Function:			
Phone:				Phone:			
E-Mail:				E-Mail:			
Date:				Date:			
Signature:				Signature:			

General:

- Template for measurement and test results
- If AIXTRON agrees supplier can use own template
- Number of measurement results which have to be documented is part of planning between AIXTRON quality department and the supplier
- If 100%-measurement is agreed the supplier has to create drawing with stamps and identifying numbers of dimension (for example see following sketch)

<p>Dimensional attributes</p>	
<p>Standards and agreements</p>	<p>Allgemeintoleranz DIN ISO ... 8</p> <p>alle Bohrungen $\sqrt{Rz100}$ 9</p> <p>Restschnittdefinition: ... 10</p>

		1-7 Product 1			SAP-Dokument-#:		
Our technology. Your future.							
Supplier:			AIXTRON:				
Supplier:	0	Mass of delivery:	AIXTRON				
Product description:	0	Sampling inspection:	0 5				
Aixtron material-##+Versi:	0	Product description:	0				
Aixtron drawing-##+Versi:	0	Aixtron material-##+Version:	0				
Release drawing:	0	Aixtron drawing-##+Version:	0				
		Release Date drawing:	0				
Ref. #	Requirements:	Actual value:			Result:		Note:
		Part 1	Part 2	Part 3	OK	n.OK	
1					<input type="checkbox"/>	<input type="checkbox"/>	
2					<input type="checkbox"/>	<input type="checkbox"/>	

- 1) Header (information will be copied automatically from cover sheet)
- 2) Reference number of attribute
- 3) Requirements (s. attachment)
- 4) Actual value with two decimal places
- 5) Result OK / n. OK
- 6) Notes (for example used measurement equipment). If deviation please note reason why the deviation happened.

7

8

Supplier:		AIXTRON:	
Note:		Release of Product/ Process:	
		Approved	<input type="checkbox"/>
		Conditionally approved	<input type="checkbox"/>
		Rejected, re-sampling	<input type="checkbox"/>
		Note:	
Name:		Name:	
Department/Function:		Department/Function:	
Phone:		Phone:	
E-Mail:		E-Mail:	
Date:		Date:	
Signature:		Signature:	

7) Confirmation supplier:

- All data of responsible person
- Date and signature

8) Confirmation AIXTRON:

- Decision (approved, conditionally approved, rejected, re-sampling). If "conditionally approved" or "rejected" please comment.
- All data of responsible person
- Date and signature

6. Product related E-Testing



9 E-Test

SAP-Documen-#:

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Supplier:		AIXTRON:	
Supplier:	0	Address of delivery:	AIXTRON SE
Product description:	0	Product description:	0
Aixtron material-#*Verz:	0	Aixtron material-#*Verzian:	0
Aixtron drawing-#*Verz:	0	Aixtron drawing-#*Verzian:	0
Release Date drawing:	0	Release Date drawing:	0

#	Requirements:	Result:		Note:
		OK	n.OK	
9a	Visual inspection			
	Type of Rack and Frame	<input type="checkbox"/>	<input type="checkbox"/>	
	Locking System	<input type="checkbox"/>	<input type="checkbox"/>	
	Cable gland and feedthrough	<input type="checkbox"/>	<input type="checkbox"/>	
	Deviation label (fixing)	<input type="checkbox"/>	<input type="checkbox"/>	
	Labeling of device	<input type="checkbox"/>	<input type="checkbox"/>	
	Cable colour main power circuit	<input type="checkbox"/>	<input type="checkbox"/>	
	Cable colour control circuit	<input type="checkbox"/>	<input type="checkbox"/>	
	Color of Cable, PE and N-cable, routing	<input type="checkbox"/>	<input type="checkbox"/>	
	Assembled like drawing/bill of material	<input type="checkbox"/>	<input type="checkbox"/>	
9b	Mechanical function inspection			
	Actuator/Grip	<input type="checkbox"/>	<input type="checkbox"/>	
	Interlocking system	<input type="checkbox"/>	<input type="checkbox"/>	
	Door Coupling	<input type="checkbox"/>	<input type="checkbox"/>	
	All Screw fitting part on Assembly of device	<input type="checkbox"/>	<input type="checkbox"/>	
	Cable Fixing	<input type="checkbox"/>	<input type="checkbox"/>	
	Electrical Connection of device and busbar	<input type="checkbox"/>	<input type="checkbox"/>	
	Claring of door with equipped force	<input type="checkbox"/>	<input type="checkbox"/>	
9c	Voltage and insulation test			
	Insulation Resistance DIN EN 60204-1	<input type="checkbox"/>	<input type="checkbox"/>	
	Grounding Continuity Test DIN EN 60204-1/SEMI S22-0712	<input type="checkbox"/>	<input type="checkbox"/>	
	Dielectric Withstand Test DIN EN 60204-1/SEMI S22-0712	<input type="checkbox"/>	<input type="checkbox"/>	
	Temperature Rise Test SEMI S22-0712	<input type="checkbox"/>	<input type="checkbox"/>	
	Input Current Test SEMI S22-0712	<input type="checkbox"/>	<input type="checkbox"/>	
	Sound Pressure Level Test SEMI S22-0712	<input type="checkbox"/>	<input type="checkbox"/>	
9d	Function test with rated voltage			
	Circuit/Control	<input type="checkbox"/>	<input type="checkbox"/>	
	Control Unit	<input type="checkbox"/>	<input type="checkbox"/>	
9e	Safety precaution			
	Protection against direct contact acc. BGVA3	<input type="checkbox"/>	<input type="checkbox"/>	
	Residual current device circuit (RCD)	<input type="checkbox"/>	<input type="checkbox"/>	
	Compliance with actions to reach required IP Code	<input type="checkbox"/>	<input type="checkbox"/>	

Supplier:		AIXTRON:		
Name:		Release of Product/Process:		
		Approved	Conditionally approved	Rejected, re-sampling
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Name:		Name:		
Department/Function:		Department/Function:		
Phone:		Phone:		
E-Mail:		E-Mail:		
Date:		Date:		
Signature:		Signature:		

General:

- Template to document measurement and test results of electrical products
- Number of attributes, which have to be documented will be defined during planning
- Results will be detected attributive
- Values have to be infilled as note
- Attach reports or similar to the FSR and note

7. Operating supplies



10 Operating supplies

SAP-Document-#:

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Supplier:		AIXTRON:			
Supplier:		Address of delivery:		AIXTRON SE	
Product description:		Product description:			
Aixtron material-\$\$\$Version:		Aixtron material-\$\$\$Version:			
Aixtron drawing-\$\$\$Version:		Aixtron drawing-\$\$\$Version:			
Release Date drawing:		Release Date drawing:			
#	Product description of Operating Supply	Producer	Data-sheet	Utilization	Note
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
Supplier:		AIXTRON:			
Note:		Release of Product/Process:			
		Approved	Conditionally approved	Rejected, re-sampling	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Name:		Name:			
Department/Function:		Department/Function:			
Phone:		Phone:			
E-Mail:		E-Mail:			
Date:		Date:			
Signature:		Signature:			

General:

- This template is to use to document all operating supplies if required by planning
- Operating supplies are cleanser, adhesives, grease and oil, cooling medium, gases etc.

8. Customer Standards

		12 Customer Standards			SAP-Document-#: _____
Our technology. Your future.					
Supplier:			AIXTRON:		
Supplier:		Adress of delivery:		AIXTRON SE	
Product description:		Product description:			
Aixtron material-#+Version:		Aixtron material-#+Version:			
Aixtron drawing-#+Version:		Aixtron drawing-#+Version:			
Release Date drawing:		Release Date drawing:			
#	Customer Standard	Revi- sion	Date of Release	OK?	Note
1				<input type="checkbox"/>	
2				<input type="checkbox"/>	
3				<input type="checkbox"/>	
4				<input type="checkbox"/>	
5				<input type="checkbox"/>	

General:

- Document all AIXTRON- company standards which have been used for planning and production
- The status of revision and the date of release of the company standards have to be documented

9. 20-30 Production process

		20-30 Process		SAP-Document-#: _____
Our technology. Your future.				
Supplier:			AIXTRON:	
Supplier:		Adress of delivery:		AIXTRON SE
Product description:		Product description:		
Aixtron material-#+Vers:		Aixtron material-#+Version:		
Aixtron drawing-#+Vers:		Aixtron drawing-#+Version:		
Release Date drawing:		Release Date drawing:		
#	Requirements:		Note:	
20	Process-FMEA	<input type="checkbox"/>		
21	Process flow chart	<input type="checkbox"/>		
22	Production control plan	<input type="checkbox"/>		
23	Process-Sign-Off (PSO)	<input type="checkbox"/>		
24	PPA Supply Chain	<input type="checkbox"/>		
25	Used Tools	<input type="checkbox"/>		

General:

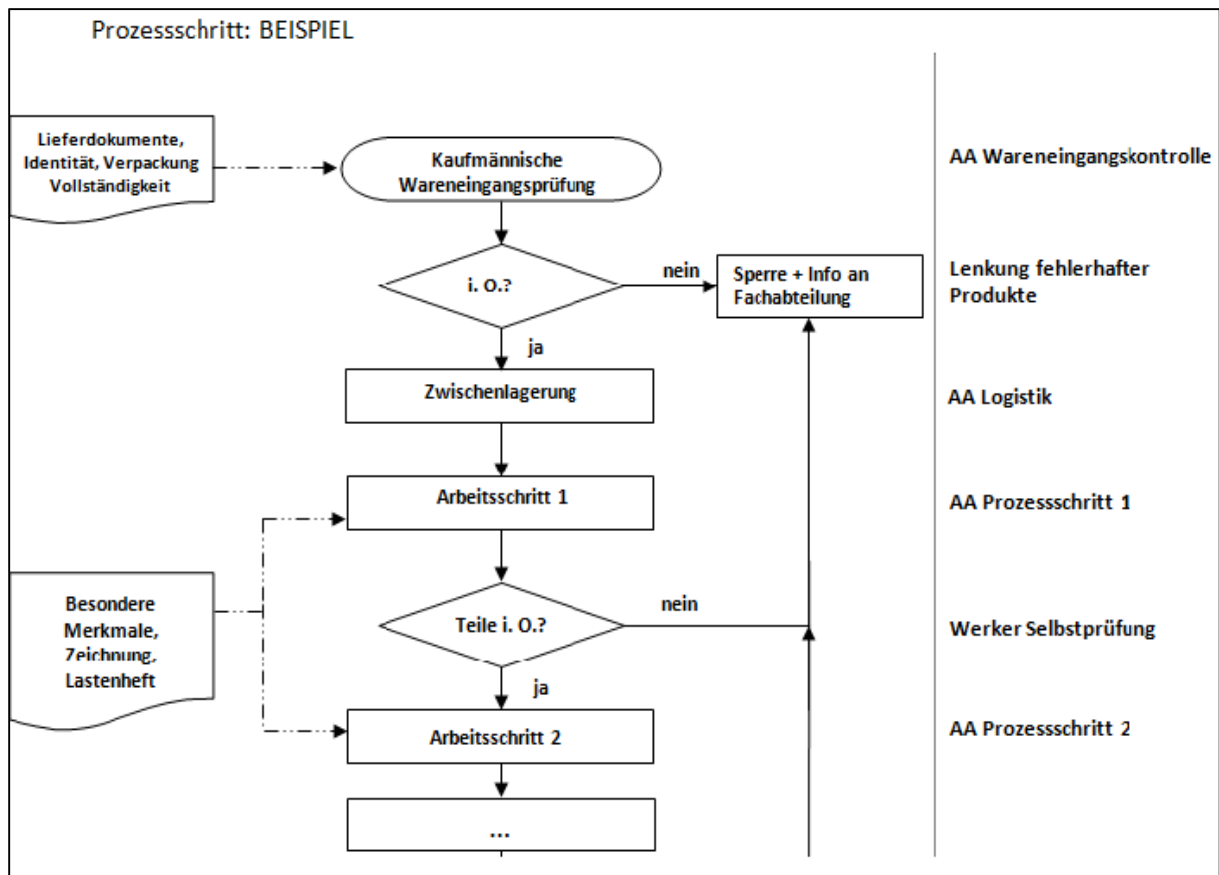
- All processes which have been agreed during planning have to be documented in this template

20) Process-FMEA (Failure modes and effect analysis)

- A process-FMEA can only be confirmed by this document and the sent cover of FSR
- Inspection of the FMEA can be done during an audit

21) Flowchart of Process

- All steps of process and inspection have to be shown in the flowchart



22) Production Control Plan

- Process steps analogical to flowchart
- Special attributes must be marked
- Includes all steps of control (Incoming goods, outgoing goods, SC-inspection etc.)
- If SC-attributes are set and required Statistical Process Control must be done

23) Process Sign Off (PSO)

- AIXTRON will initialize PSO only for special products
- Goal of PSO is to assure that the production process of a supplier is capable to produce AIXTRON products
- It should ensure that AIXTRON requirements are understood and reproducible complied

- 24) FSR-Supply chain
 - Name all subcontractors and sub supplier which are involved to manufacture the product
 - Attach all documents of sampling of sub suppliers

- 25) Used tools
 - Will not be required often
 - If necessary AIXTRON will discuss the design of the overview with supplier

- 26) List of measurement/test equipment
 - Name all measurement/test equipment

- 27) Evidence inspection/test equipment-capability
 - Evidence inspection/test equipment must be done for example with pressure test equipment or product related inspection tools
 - It is possible that the last calibration report/certificate of standard inspection/test equipment like caliper, caliber etc. will be required

- 28) Design and development release
 - Design and development release will be requested by SOW (Statement of Work)
 - In the SOW will also be regulated who is responsible for the release at AIXTRON

- 29) Part history Part history shows the completely process/product development and all changes at these

Example:



Our technology. Your future.

31 Part History

SAP-Document-#:

#		Date	Discription of action	Order-#	Bill of delivery-#	Note
1	xx.xx.xxxx	Zeichnungserstellung und Freigabe				
2	xx.xx.xxxx	Create drawing and release				

- 30) Other
 - Special agreements with are not standard part of FSR

10. Charge carrier/Packaging/Identification marking

General:

If charge carrier is marked in the FSR and there are no further requirements agreed the supplier have to bring by a verification of suitability (for example a working instruction of packaging)

Example:

Musterbetrieb AG	Verpackungs- anweisung	Datum Erstfreigabe: Änderungsdatum:
	Benennung	Artikelnummer
3Lagen, a 6st, mit Antirutschplatten auslegen	hier Bild (Teil) einfügen	

!! Achtung: der Boden des Behälters muss sauber sein !!

- z.B.
- 1 Gitterbox
- 1 Gewebesack
- 4 Antirutschplatten
- (3 Lagen á 6 Teile)



18 Teile

Notes

Trust

Most results of sampling will be reviewed by the sent report and contained test results. Basic principle is an especially partnership of trust between AIXTRON and the supplier.

Documentation

The FSR

- has to be sent to Aixtron before delivery of product
- will be shared by saving on **External Data Exchange-server**
- please consider TCF0013.

Responsible of FSR at AIXTRON

Help, questions and notes can be sent to Quality@aixtron.com.

Attachments

- TCF0013