

ANODISER Master Inspection Report

According to the requirements of Appendix A15 of the QUALICOAT Specifications

Author: QUALISURFAL

Document Code: F-MIR-Anod

QQM Section: 9.1.3.3

Date Approved: 17.11.2023

Aproved by: Executive Committee

Valid from: 01.01.2024

Version: 01

No. Pages: 19



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Name Plant Address																		
Phone																		
Responsible person(s) (contact)																		
Licence number			(lea GR	ve blank for l)		Nun line	nber of a s	anodi	sing									
ANODISIN	ig Li	NE	INSPE	CTION				0 0 0		0 0 0	0 0 0 0 0 0 0 0 0	0 0 0		· · ·	· · · · · · · · · · · · · · · · · · ·		 0 0	· · · · · · · · · · · · · · · · · · ·
DATE OF INSPE (use dropdown cale			DESIGNA	TION OF TH	E ANOD	ISING I	LINE											
INSPECTION NO	0.																	
			Granting															
TYPE OF INSPE	CTION		Renewal															
			Repetition															
DATE OF LAST (use dropdown cale		TION	Has anything in the plant the last ins	ng changed since pection?	YES	NO	If YES what?											
Testing laboratory	У																	
Name of inspecto	r 1:							2:										
Is the inspection unannounced?		YES	NO	If NO why?														
Is an inspection possible?		YES	NO	If NO why?														
Remarks																		

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::: :::1	. PRE-REQU	JIREMENTS	OF THE A	ANODISE	R			
The	inspector shall verif	y if the anodiser ha	as requirement	ts for becomir	ng a licensed anod	liser.		
1.1	QUALITY MAN	NAGEMENT SY	STEM					
	Does the anodising property for a Quality Manage	plant has a QUALANOI ment System?) licence or is acc	credited by an ac	creditation body		YES	NO
	If yes, please specify							
	Qualanod licence		Othe	er Management S	System			
	Licence number		Deta	nils				
					(please attached copy	of the accreditation ce	ertificate)	
	Remarks							
1.2	COATER'S RE	QUIREMENTS						
	Does the coater(s) ha	ave a QUALICOAT lice	nse with SEASIDI	E (PRE-OX) endo	prsement?		YES	NO
		Coater A		Coater B		Coater C		_
	Licence number							
	Remarks							

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2. AGREEMENT WITH THE COATER

2.1 GENERAL AGREEMENT WITH THE COATERS

The inspector shall verify if the anodiser has shared with the coater(s) the technical description of the process and that it was approved and signed by the anodiser and the coater.

YES NO

Is there an agreement between the anodiser and the licenced coater?

Are the following information included in the agreement or in the order checklist?

YES NO

Complete description of all the process/parameters to be used

Detailed description of rinsing conditions (30 μ S) including information about the usage and the type of hot sealing or approved passivation and related parameters, values, and limits

Number of test panels which are produced in the same lot together with the material

Alloy

Etching requirements of cast material

Location of jigging marks

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2.2 CHECKLIST FOR OUTSOURCED ANODISING WORK

The inspector checks the documents related to some productions for verifying if all the details are included.

Date of order is given		Unique reference				
			(e.g. order no. / job care	d no. / process no. for refe	rence)	
Type of product	Profiles	Sheets	Others			
	Numbers	Lengths	Perimeter	m²	Drawings	
Bill of material includes	YES NO	YES NO	YES NO	YES NO	YES NO	
If NO, please specify						
Alloy						
Requested	PRE-OX I	Declared layer thickness	Remarks			
treatment		4-10µm				

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Delivery of		Extruder / Trader	From Powe Coater	der	Comple delive	ete ry	.	Partial delivery	
treated parts									
Entry control by anodiser	YES	NO	Visual check	OK	NOT OK				
Remarks									
Exit control by anodiser	YES	NO	Visual check	OK	NOT OK				
Remarks									
Extra samples provided If not please specify	YES	NO	Are the extra sam of the same mater	iples de rial as t	clared to be made ne delivery?	YES	NO		
Date and time of Anodising production (A)					Date and time of Sample production				

DELIVERY APPOINTMENTS BETWEEN SENDER AND RECIPIENT 2.3

(storage period in accordance with Chapter 3, section 3.4 of the QUALICOAT Specifications)

Date of material receipt	(effective goods receipt date)
Material delivery (latest)	(date of completion of the final delivery)
Desired pickup date	(originally requested date of pickup)
Remarks	

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2.4 FEEDBACK FROM THE COATER

	Are the following information communicated by the coater to the anodiser for each delivery?	YES	NO
	Name and licence number of the coater		
	Date and time of anodising (A)		
	Date and time of coating (B)		
	Order number		
	Rinsing water conductivity, if carried out (max. 30 μ S)		
	P-No. and colour		
	Results of the wet adhesion test		
: 3.	STORAGE CONDITIONS BEFORE TREATMENT		
3.1	PARTS TO BE TREATED		
	Are parts to be treated stored in accordance with Chapter 3, section 3.1.1 of the QUALICOAT Specifications?	YES	NO
	Remarks		
3.2	CHEMICAL PRODUCTS		
	Do the storage conditions comply with the chemical manufacturer's requirements?	YES	NO
	Remarks		

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4. INSPECTION OF LABORATORY AND APPARATUS

4.1 LABORATORY YES NO Appearance correct Remarks

4.2 APPARATUS

Instruments for measuring coating thickness (ISO 2360)

Verify the calibration of the instrument using two suitable standards according to the thickness to be measured

	MAKE						Instrument B					
							MAKE					
	MODEL						MODEL					
	No.						No.					
Deviation from the standard value	REQUII	RED		MEASURED		$-\mid$	REQUIF	RED	MEASURED			
- Set-up I: 0 µm range ± 1												
- Set-up II 10 μm range ± 1												
- Set-up III 20 µm range ± 1.5												
- Function												
	VEC	NO										
Calibration standards/ foils available	YES	NO	Rema	rks								
Data sheet with identifi- cation no. and calibration records available	YES	NO	Rema	rks								

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4.3 Conductivity Meter

Make	Model		No
Reference test solution	μS/cm	Temperature	°C
Measured	μS/cm	Temperature	°C
Function (≤ 2 µS/cm)	Calibrati available	ion solution ≤ 100 µS/cm	YES NO
Data sheet with identification no. and calibration records available	YES NO		
Remarks			

4.4 pH Meter

Make		Model		No	
Test of the electrodes	Solution 1	рН	Measured		рН
with two standard test solutions	Solution 2	рН	Measured		рН
Function (± 0.1)					
Remarks					

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PROCESS INSPECTION

5.1 **TYPE OF PRETREATMENT**

Anodic pretreatment

Anodic pretreatment + Chemical pretreatment (Chrome VI-free) QUALICOAT approval No. (e.g. AP-003 / AP-132)

Anodic pretreatment + Chromate pretreatment

	m		

DEGREASING - ETCHING - DESMUTTING 5.2

			DEGREASING	ETCHING	DESMUTTING*
		SUPPLIER			
		PRODUCT			
Temperature (°C)		required			
		measured			
Concentration		required			
		measured			
Immersion/spr time (min)	ray	required			
		measured			
					* mandatory for Alkaline etching
Total etching rate g/m²		(requested $\geq 2g/m^2$)	Remarks		

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5.3 **ANODISING**

	RECOMMENDED	MEASURED
Temperature of anodising bath	20 - 30 °C	
Acid concentration	180 – 220 g/l	
Aluminium content	5 – 15 g/l	

Remarks

CONVERSION (if made)*

	REQUIRED	MEASURED
Temperature	°C	°C
Concentration / extinction		
Conductivity	μS/cm	μS/cm
Immersion/spray time	•	
pH value		
*only rinse pretreatment a	allowed	I
Remarks		

FINAL RINSING

	REQUIRED*	MEASURED
Conductivity of the final rinsing	30 μS/cm at 20°C	
Conductivity of dripping water	30 μS/cm at 20°C	

^{*}Not required in case of a further rinsing with a conductivity of max. 30 µS/cm at 20°C is carried out at the coater's plant.

Remarks

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6 INSPECTION OF FINISHED PRODUCTS

6.1 INSPECTION OF ANODISED PARTS (which have been released by the anodiser)

Type of production	Sections	Sheets	Small parts	Others
Remarks				

6.2 THICKNESS OF ANODIC FILM (anodic coating without powdering and surface flaws)

ORDER NO.			LO	T SIZE					
Section Thickness in [µm]	2	3	4	5	6	7	8	9	10
ORDER NO.			LO	T SIZE					
Section 1 Thickness in [µm]	2	3	4	5	6	7	8	9	10
ORDER NO.			LO	T SIZE					
Section 1 Thickness in [µm]	2	3	4	5	6	7	8	9	10
Remarks									

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7 IN-HOUSE CONTROL

	CATEGORY OF TEST	CONFORMITY	
		Minimum frequency required	Recorded
TESTING OF FINISHED PRODUCTS	APPEARANCE (anodic coating without powdering and surface flaws)	Every flight bar	
TEST FINI PRO	COATING THICKNESS (ISO 2360)	Every flight bar	
	DEGREASING/ETCHING AND DESMUTTING TEMPERATURE	Every 8 hours	
	DEGREASING/ETCHING AND DESMUTTING CONCENTRATION	Once per day	
	WEIGHT OF ALUMINIUM REMOVED (etching degree)	Once per day	
TING	TEMPERATURE OF ANODISING BATH	Every 8 hours	
PROCESS TESTING	ACID CONCENTRATION OF ANODISING BATH	Once per day	
PROC	ALUMINIUM CONCENTRATION OF ANODISING BATH	Once per day	
	CONVERSION PARAMETERS	Every 8 hours	
	CONDUCTIVITY OF THE FINAL RINSE	Minimum once per day	
	CONDUCTIVITY OF THE DRIPPING WATER	Minimum once per day	

RECORDS AND REGISTERS

YES NO

PRODUCTION CONTROL REGISTER

YES NO

up to date

STANDARDS OR OPERATING INSTRUCTIONS BASED ON THE STANDARDS

YES NO

are available for all tests

Remarks

up to date

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8 OTHERS

Specifications

Is the latest edition of the QUALICOAT Specifications (including current Update Sheets) available to the person(s) responsible?

YES NO

Use of the label (see Appendix A15, section 3.6 of the QUALICOAT Specifications)

NO YES

Does the use of the logo comply with the regulations for use of the QUALICOAT quality label?

If Not, why?

DATE		
INSPEC	TOR'S SIGNATURE	
DATE		
DATE		
LABOR	ATORY'S SIGNATII	RF

INSPECTION BODY

GENERAL LICENSEE

DATE

RESULT RECOMMENDATION TO QUALICOAT*

SATISFACTORY

NOT SATISFACTORY

REMARKS GL

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^{*} The final assessment is made by QUALICOAT



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SUMMARIZING	G SHEET :::::		
Form to be compl	eted at the end of an inspe	ection	
ANODISER			LICENCE NUMBER
DATE OF INSPECTION	ANODISING LINE	NAME OF INSPECTOR	₹
INSPECTION NO.			
INSPECTION NO.	Granting		
	Renewal		
	Repetition		
RESOLUTION OF PREV	IOUS ISSUES AND NONCONFORM	ITIES:	
1			
2			
3			
4			
RESULTS			
SUMMARY OF TESTS AND INSPECTION	ISSUES A NONCONF	AND/OR ORMITIES	ANODISER'S REMARKS
AGREEMENTS WITH THE COATER + STORAGE CONDITIONS			

INSPECTION OF LABORATORY EQUIPMENT

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SUMMARY OF TESTS AND INSPECTION	ISSUES AND/OR NONCONFORMITIES	ANODISER'S REMARKS
INSPECTION OF PRODUCTION PROCESS + INSPECTION OF CONVERSION PROCESS (if made)		
INSPECTION OF FINISHED PRODUCTS + STORAGE CONDITIONS OF FINISHED PRODUCTS		
REVIEW OF IN-HOUSE CONTROL AND REGISTERS		
OTHERS (CLAIMS REGISTER, USE OF THE LABEL, ETC.)		

INSPECTOR'S SIGNATURE	PLANT MANAGER'S SIGNATURE

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UPLOAD 1/4

ADDITIONAL FILES

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