# INK FOR DENTURE MARKING (DYNAMIC)

# Airbus Helicopters and AVIATEC only

Complement to ECA3194 ECA-L3194 Appendix 1

Issue: A

Date: 04/2018

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#### Classification acc. El021 HS 9012:

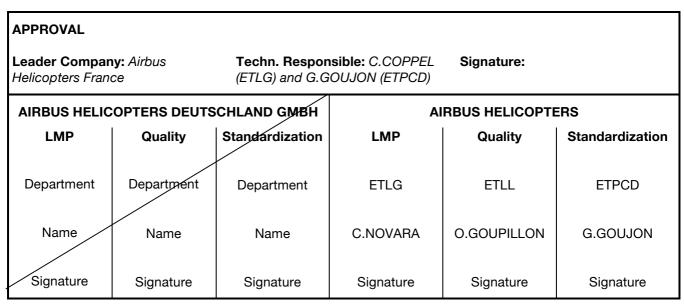
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AIRBUS

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## LIST OF REVISIONS

Issue	Date	Revision (incl. reason for change in case of revisions)	
А	04/2018	New document	

#### ECA-L3194 APPENDIX 1

## **Airbus Helicopters and AVIATEC only**

### **1 PURPOSE**

This appendix specifies the agreements between manufacturer and Airbus Helicopters in terms of this ECA.

Chapter 0 includes acknowledgement and receipt of this ECA by the manufacturer. If there are additional agreements existing they are listed in chapter 0.

## 2 REFERENCES AND ASSOCIATED DOCUMENTS

The following referenced documents are used in the context of this specification. These documents shall be consulted at the latest issue in effect (including any amendments). If the issue is explicitly mentioned the document has to be consulted at the issue which is indicated.

EI021 HS9012	Airbus helicopters Group - Classification for Standards and Standard-Parts
ER 070 06-01	GRFS: General Requirements for Suppliers – General Requirements for Quality Assurance
L085 002	AHPDSL : Airbus Helicopters Prioritable Declarable Substances List
EP09-02	Control of Materials and Processes
HS5022-10	Definition of marking technologies
ISO 2812	Paints and varnishes - Determination of resistance to liquids
PR EN 4160	Paints and varnishes - Test methods determination of the effect of tharmal exposure
ISO 9227	Corrosion tests in artificial atmospheres - Salt spray tests
ISO 4628	Paints and Varnishes - Evaluation of degradation of coatings - designation of quantity and size of defects
ISO 3678	Paints and Varnishes – Print-free test

## **3 DEFINITION AND TERMINOLOGY**

AMAZE	Advanced Material Database
ECA	Enterprise Corporate Auxiliary
EI	Enterprise Instruction
HS	Helicopter Standard (procedure instruction / selection lists)
LMP	Laboratory for Materials & Processes
User	Company that uses the material of this ECA during production (e.g. Airbus Helicopters, subsidiaries, subcontractor)
Manufacturer	Manufacturer of the material specified in this ECA
A	Acceptance Test => Materials value to be established/ generated by the user
Q	Qualification Test => Materials value to be established/ generated during material qualification
Р	Prolongation Test => Materials value to be established/ generated during prolongation test (to extend storage life)
Т	Serial delivery Test => Materials value to be established/ generated by the material manufacturer. Results have to be provided via acceptance test report
N / A	Not applicable

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## **Airbus Helicopters and AVIATEC only**

## 4 ADDITIONAL AGREEMENTS BETWEEN MANUFACTURER AND AIRBUS HELICOPTERS

## Material: ECA3194-4248

#### A. General information

	Property	Requirement
1	Product	Suppliers must indicate the exact trade name, general and chemical description of the product
		Product must be delivered with indication of ECA, product reference, weight, batch numberon packaging (see §8 in ECA3194). A certificate of conformity must be provided by the supplier for each delivery.
3	Storage	Refer to §9 in ECA3194.
4	Unwanted components	<ul> <li>See L085 002</li> <li>PRG (or GWP) &gt; 500</li> <li>H300/ H301/ H304/ H310/ H311/ H330/ H331/ H340/ H350/ H360/ H370/ H372/ H400/ H410</li> <li>R23/ R24/ R25/ R26/ R27/ R28/ R39/ R45/ R46/ R48/ R49/ R50/ R53/ R60/ R61</li> </ul>

#### B. Properties as delivered

	Property	Test standard	Temp. [°C]	Unit	Requirement	Type of test see chapter Error! Reference source not found.
1	Visual	ISO 4628	N/A	N/A	N/A After application, the dry ink must present uniform colour and be exempt of air bubble and others surface defects.	
2	Color	/	23°C	N/A	N/A Blue	
3	Application conditions	N/A	N/A	N/A Application with the following parameters: • -20°C < Temperature < +48°C • 30% < Relative humidity < 70%		Q
4	Drying time	ISO 3678	RT	s Drying time < 120s at room temperature.		Q

#### C. Mechanical properties

	Property	Test standard	Temp. [°C]	Unit	Requirement Type of t see chap Error! Reference source n found.	
1	Resistance to temperature*	PR EN 4160	150°C	N/A	N/A 150°C during 24h. ACCEPTABLE : Slight visual change and color change, no transfer, no damage of the ink.	
2	Salt spray resistance*	ISO 9227 35°C N/A ACCE		N/A	Exposure during 1500h - 35°C – 5% NaCl. ACCEPTABLE : Corrosion apparition at 24h with steel substrate.	Q
3	Resistance to oils and hydraulic fluid*	ISO 2812-1	RT	N/A	Immersion during 24h at room temperature in NATO156 and NATO150. NO COMPLIANT : no more ink after immersion.	Q

\*Tests performed by Airbus Helicopters

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## 5 CONFIRMATION OF MANUFACTURER

AVIATEC acknowledges the receipt of: ECA 3194 (Issue A)

Herewith the above referenced Enterprise Corporate Auxiliary (ECA) is accepted as technical specification for manufacturing and delivery of the following products:

ECA-Reference	AVIATEC material reference	PCD-Reference	Remarks
ECA3194-4248	Steel Blue® Layout Fluids		

Every delivered batch has to fulfill the requirements in ECA3194.

Changes in the material and in the manufacturing process have to be reported to and confirmed by Airbus Helicopters.

This agreement is valid for all deliveries to Airbus Helicopters and its subcontractors.

	Airbus H	elicopters	AVIATEC
Name		C.NOVARA	
Department/ Function		ETLG	
Date		04/2018	
Signature			
	Airbus Helicopters Deutschland GmbH	Airbus Helicopters	