

Doing Business with Boeing Approved Process Sources D1-4426 Revision: MN Effective: 17/Dec/2024

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Metallic Raw Material Training

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Document D1-4426 - Processes for BE10028864

tail Information for Processor Code num pplier Name: ELEMENT MATERIALS TEC	
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* An acronym in the "Nadcap Commodity" column only indicates that <u>Nadcap accreditation may be required</u> for this Process Code. It does not provide any indication of this company's actual Nadcap accreditation status.

Process Code	*Nadcap Commodity	Limitation Codes	Doc Notes	Nomenclature	Specification Number
003	<u>AQS</u>	None	None	Quality Management System (QMS) as defined in D1-4426 Processor Requirements Sec 6.16.3	Quality System
<u>400</u>	<u>NDT</u>	None		Magnetic Particle Inspection	BAC 5424
<u>400A</u>	<u>NDT</u>	None		Magnetic Particle Inspection	BSS 7040
<u>402</u>	<u>NDT</u>	None		Magnetic Particle Inspection	ASTM-E- 1444
<u>403</u>	<u>NDT</u>	None		Magnetic Particle Inspection	MIL-STD- 1949
<u>404</u>	<u>NDT</u>	None		Magnetic Particle Inspection	MIL-I-6868
410	NDT	None	.Also approved to pre- penetrant etch aluminum, titanium, magnesium,	Penetrant Inspection	BAC 5423

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			and stainless steels.			
410A	NDT	None	Also approved to pre- penetrant etch aluminum, titanium, magnesium, and stainless steels.	Liquid Penetrant Inspection	BSS 7039	
411	<u>NDT</u>	None	Approved to pre- penetrant etch aluminum, titanium, magnesium, and stainless steels	Penetrant Inspection	ASTM-E- 1417	
412	NDT	None	Approved to pre-penetrant etch aluminum, titanium, magnesium, and stainless steels.	Penetrant Inspection	MIL-STD- 6866	
<u>420A</u>	<u>NDT</u>	None		Standard Practice for Radiographic Inspection	ASTM-E- 1742	
<u>421</u>	NDT	None		Radiologic Inspection/Radiography (film)		
<u>430</u>	<u>NDT</u>	None		Ultrasonic Inspection - Longitudinal Wave	BAC 5439	
<u>430A</u>	<u>NDT</u>	None		Ultrasonic Inspection/Longitudinal	BSS 7052	
<u>430B</u>	<u>NDT</u>	None		Ultrasonic Inspection/Shear Wave	BSS 7052	
431	NDT	None		UT Insp Plate and Flat - Obsolete Superseded by BSS 7055	BAC 5439-3	
<u>431A</u>	<u>NDT</u>	None	None	Ultrasonic Inspection/Plate - Flat	BSS 7055	
<u>431B</u>	NDT	None		Ultrasonic Inspection/Round - Shapes	BSS 7055	
432	<u>NDT</u>	None		UT Insp Rounds - Shapes - Obsolete Superseded by BSS 7055	BAC 5439-3	
436	<u>NDT</u>	None		Ultrasonic Inspection of Flat Surface Shapes	MIL-STD- 2154	
436A	NDT	None		Ultrasonic Inspection Titanium and Titanium Alloy Bar, Billet and Plate	AMS 2631	
436B	NDT	None		Ultrasonic Inspection of Flat Surface Shapes	AMS-STD- 2154	

Ultrasonic Inspection of Flat Surface Shapes Ultrasonic Inspection of Flat Surfaces	MIL-I-8950 ASTM-E-
	ASTM-F-
	2375
Ultrasonic Inspection of Rounds - Shapes Req- d Compensation	MIL-STD- 2154
Ultrasonic Inspection of Rounds and Shapes	AMS-STD- 2154
Ultrasonic Inspection of Rounds and Curved Shapes	ASTM-E- 2375
Cleaning - Descaling of Titanium - Method II Only	BAC 5753
Process Solution Control	Chem. Testing
NDI Personnel Certification Level 3 Magnetic	NAS 410
NDI Personnel Certification Level 3 Penetrant	NAS 410
NDI Personnel Certification Level 3 Radiographic	NAS 410
NDI Personnel Certification Level 3 Ultrasonic	NAS 410
Magnetic Particle Inspection (QPL)	HP6-5
Penetrant Inspection - Fluorescent (QPL)	HP6-13
Radiographic Inspection (QPL)	HP6-18
Ultrasonic Inspection - Metals (QPL)	HP6-22
Magnetic Particle Inspection	PS21201
Penetrant Inspection - Aluminum	PS21202
Penetrant Inspection - Cobalt - Nickel	PS21202
Penetrant Inspection - Copper	PS21202
0 U F U F	Ultrasonic Inspection of Rounds and Shapes Ultrasonic Inspection of Rounds and Curved Shapes Cleaning - Descaling of Titanium - Method II Only Process Solution Control NDI Personnel Certification Level 3 Magnetic NDI Personnel Certification Level 3 Penetrant NDI Personnel Certification Level 3 Radiographic NDI Personnel Certification Level 3 Penetrant NDI Personnel Certification Level 3 Ultrasonic Magnetic Particle Inspection (QPL) Penetrant Inspection - Fluorescent (QPL) Magnetic Particle Inspection (QPL) Penetrant Inspection - Metals (QPL) Magnetic Particle Inspection - Penetrant Inspection - Aluminum Penetrant Inspection - Cobalt - Nickel

<u>S410F</u>	NDT	None	Also approved for pre- penetrant etch.	Penetrant Inspection - Magnesium	PS21202
<u>S410H</u>	<u>NDT</u>	None		Penetrant Inspection - Stainless Steels	PS21202
<u>S410J</u>	NDT	None	Also approved to pre- penetrant etch.	Penetrant Inspection - Titanium	PS21202
<u>S421</u>	<u>NDT</u>	None		Radiographic Inspection	PS21206
<u>S430</u>	<u>NDT</u>	None	None	Ultrasonic Inspection	PS21211
<u>S430C</u>	NDT	None		Ultrasonic Inspection - Machined Parts / Thin Mat-I	PS21211.3

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