

General Guidelines for a Successful Inspection

Presentation by VQC Team



SUMMARY

Objective:

To improve "First Time Right" with structured guidelines of Xometry's quality requirements.

To avoid delays from approving shipments due to documentation submittals.



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ITAR regulates three types of technical data:

- Information for the design, development, manufacturing of defense articles, including blueprints, drawings, documentation, etc...
- Classified information about the defense articles and defense services listed above.
- Software directly related to defense articles.

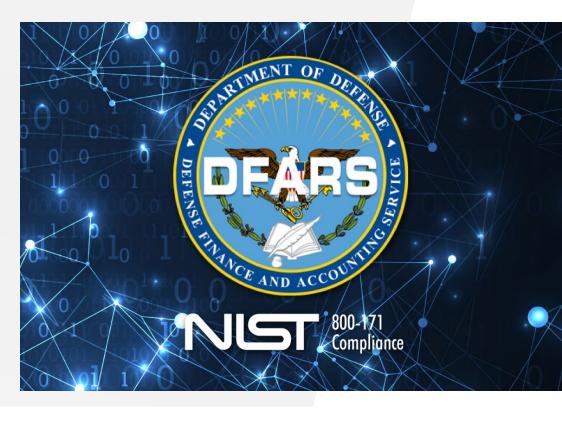
What does this mean to you?

- ITAR data is any data that can be used to create an ITAR part.
- This includes:
 - CAD/CAM files (either digital or printed) OR screenshots of those files
 - A part file drawing/pdf OR a screenshot of a drawing
 - Inspection Reports
 - Physical ITAR Parts OR Pictures of ITAR Parts



When a Xometry PO calls for DFARS-compliant Material Certs:

- For all materials, we are requesting that the mill (metal) or melt (plastics) origin is a country on the DFARS approved list below.
- All certifications should state compliance
 explicitly. If a certificate does not state DFARS,
 but is by matter-of-fact, contact
 <u>vqc@xometry.com</u> with the certificate to confirm
 approvals before manufacturing that may inhibit
 the ability to return the purchased material.



DFARS qualifying countries (Per DFARS 225.872-1) include:

- Australia
- Canada
- Egypt
- France
- Israel
- Latvia
- Norway
- Slovenia
- Switzerland

- Austria
- Czech Republic
- Estonia
- Germany
- Italy
- Luxembourg
- Poland
- Spain
- Turkey

- Belgium
- Denmark
- Finland
- Greece
- Japan
- Netherlands
- Portugal
- Sweden
- United Kingdom of Great Britain and Northern Ireland

Certifications

When required must comply with:

- Certification Of Conformance
- Hardware Certifications / Traceability
- Material Certification / Traceability
- Standard Material Certification
- Material type, temper and spec
- ITAR/EAR Registration
- ROHS/REACH compliance
- NADCAP compliance

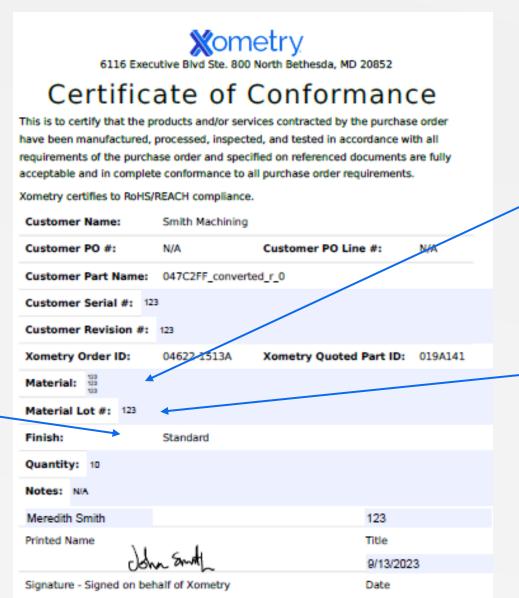
Note: If any document/certification **DOES NOT Comply when any of the above are required, please inform the **Case Management** as we must have written approval to omit the request by the **customer**.



Certification of Conformance(CoC) Certification Requirements

- A Digital Copy must be uploaded to portal as a pdf.
- A Physical Copy must be shipped with the parcel

Must declare
the Finish
used. This will
include the
finish and spec
as listed on the
finish cert. If no
finish is
required, please
list "standard" as
the finish for
bare parts.



Must declare the material, temper and spec if one is listed on the drawing

When 6061 – T6 is required, please list the exact temper as it appears on the material cert (T651,T6511 or T6)

If Material Lot is present, the customer has requested a Standard Material Certification

Material Lot must be filled out. **If the** material lot # is not listed on the cert, please use either the heat number, batch number, resin number or cast number.



Certification of Conformance(CoC) Administrative Requirements

Xometry

6116 Executive Blvd Ste. 800 North Bethesda, MD 20852

Certificate of Conformance

This is to certify that the products and/or services contracted by the purchase order have been manufactured, processed, inspected, and tested in accordance with all requirements of the purchase order and specified on referenced documents are fully acceptable and in complete conformance to all purchase order requirements.

Xometry certifies to RoHS/REACH compliance.

Customer Name: Smith Machining Customer PO Line #: Customer PO #: N/A N/A Customer Part Name: 047C2FF converted r 0 Customer Serial #: Customer Revision #: Xometry Order ID: 04622-1513A Xometry Quoted Part ID: 019A141 Material: Material Lot #: 123 Finish: Standard Quantity: 10 Notes: N/A 123 Meredith Smith Title Printed Name 9/13/2023 Signature - Signed on behalf of Xometry Date

Must declare the Serial numbers for the parts if required by the customer example (001-006)
If no S/N's are required, please enter

N/A

Must declare the customer drawing revision number. If no revision number is on the print, please list N/A.

This is your title with your company.

Month, day and year

Please print your first and last name here.

Must be signed by you, the partner

A **Digital Copy** must be

A **Physical Copy** must be **shipped** with the parcel

uploaded to portal as a pdf.

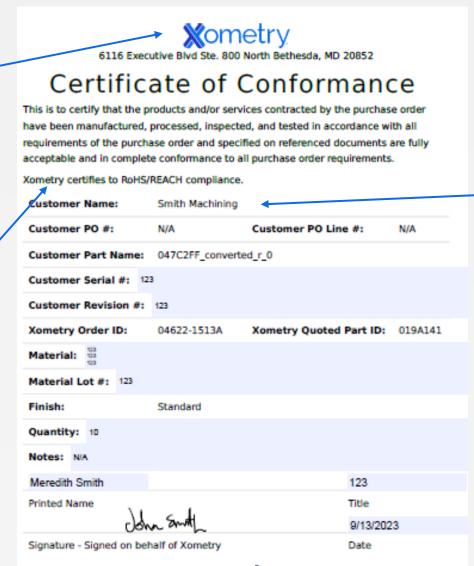


CoC on Partners letterhead (for Material Traceability)

• For material traceability requirements, a partner letterhead CoC is required. Once the Xometry CoC is completed, the Xometry CoC may be used to create a partner CoC. If utilizing the Xometry CoC please make the following amendments.

Replace the Xometry letterhead with the **partner letterhead**.

Replace the Xometry name with the **partner name**.





Change **customer**

name to Xometry

Material Certifications & Material Traceability When Required

Standard Material Cert will consist of the material type, temper, specification, and the Material Test Report from the MILL with the heat lot number. Each cert must be reproduced completely (if the cert states four pages, all four pages are required regardless of the content). Each document must be fully legible.

Mill Material Cert will consist of the material type, the heat lot number, the chemical breakdown, and the material test report data.

Plastic material cert will consist of certification showing the plastic name, material type, and class if applicable, any applicable specifications, and resin lot number.

Material Traceability

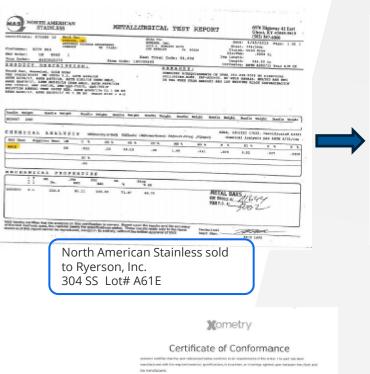
For material traceability, the documentation shall start with **MILL** that consists of the chemical breakdown and physical Material Test Report. Material Chain of Custody (whenever material changes hands) must be provided when material traceability is required. Each certification shall have the same material **heat lot Number**. Each cert must be reproduced completely (if the cert states four pages, all four pages are required regardless of the content). Each document must be fully legible.

The Partner will also need to provide the C of C on the company letterhead for material traceability. A Xometry CoC and a partner CoC are required for material traceability.

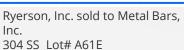
Xometry Community Standard Material Cert Link

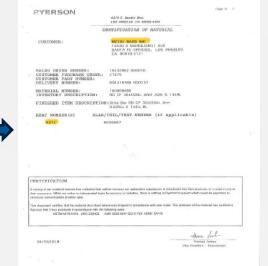


Material certifications and Material Traceability



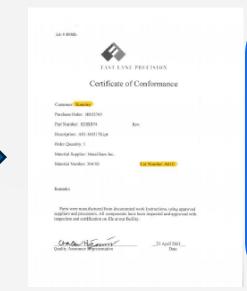












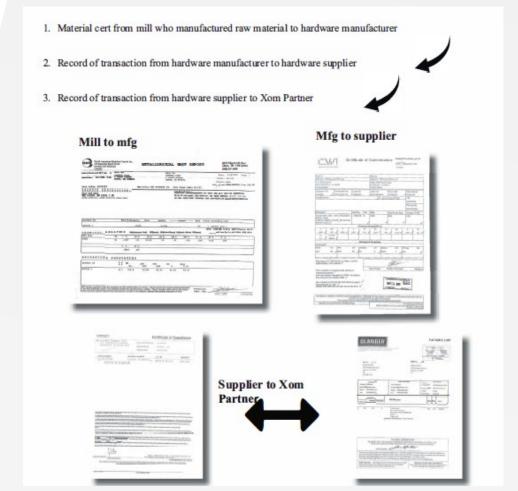
For material traceability, we need to see documentation starting with the **mill** that consists of the **chem/physical document** and a **document for each time the material was sold/bought** ending with the documentation showing you as the final buyer. Each document will list the material type and material lot number. When properly put together, it will kind of resemble a family tree.

In this example, the material type is 304 SS and material lot number is A61E. North American Stainless sold to Ryerson, Inc. Ryerson, Inc sold to Metal Bars, Inc., Metal Bars, Inc sold to Fastlane Precision who is the partner. The partner completed the Xometry CoC and made a CoC on their own company letterhead to complete the material traceability. **All documents contain the same material type and material lot.**



Hardware Traceability

- •Proof of purchase/CoC from the Hardware supplier and all touchpoints back to the mill that produced the raw material need to be shown. Please be sure to request the chemical and physical certification with full traceability from the hardware vendor when purchasing.
- •This would show the purchase from the mill that produced the raw material to the hardware manufacturer, hardware manufacturer to hardware supplier, hardware supplier to the Xometry Partner in the same way that material traceability is followed.





GD&T Typeface

Xometry uses the below typeface for the engineering characters on inspection reports in accordance with Y14.5M. Below is a link to download the font characters to ensure they output properly on all Inspection Reports.

Y14.5M FONT



GD&T Font Downloading instructions

Download and Install Instructions:

- 1. Select link to navigate to font page: http://www.fontspace.com/micronus/y145m-2009
- 2. Click "Download" to download .zip file with Font installer.

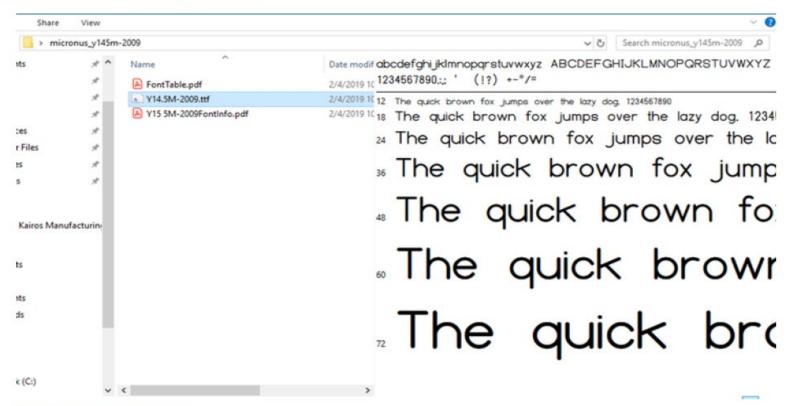


3. Navigate to downloaded .zip file and extract all contents.

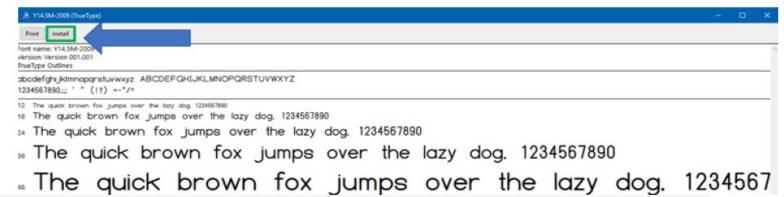


GD&T Font Downloading instructions

Double click to open "Y14.5M-2009.ttf" file.



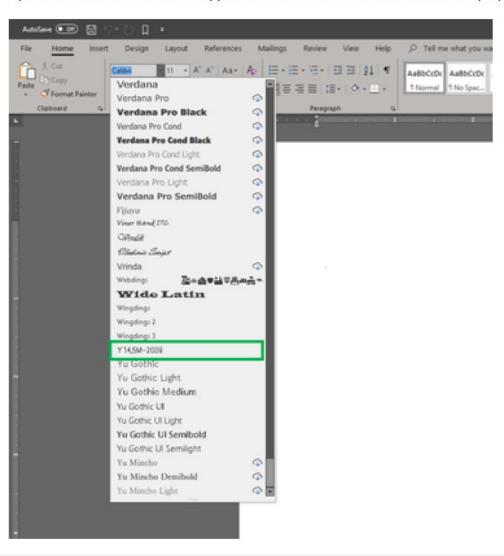
5. Select "Install" to load the font.





GD&T Font Downloading instructions

6. Open Microsoft Word or similar application and check to ensure the font was properly installed.





Finish Certification requirements:

- •The certification must be produced by the finishing company on their company letterhead.
- •The document will include either the Xometry part number or customer part number for traceability to the part as well as the complete spec that the part has been finished to.
- •The spec must match what the customer is requesting on the drawing.
- •The finish cert will include the finishers signature and date along with a certification number.



Standard Inspection Requirements

The inspection will be in-process. **Documentation** will **not** be **shipped** with parts.

- For regular standards inspections please pull the **critical dimensions** from the drawing/model/cad file and create your own report or use the Xometry Standard Report..
- In the case that a drawing was not provided, please record the checked dimensions from the CAD Model and record the results.
- Please provide the dimensional results next to the corresponding dimension.
- You can also record the dimensional results on a copy of the blueprint next to the corresponding dimension and upload that as a pdf file to the portal.
- Please upload an up-close and clear picture of each face/side of the finished parts including detailed photos of any
 features such as engraving, ink stamp, laser marks, threads/tapped holes, inserts or hardware. Please refer to the
 print and try to take pictures from the same angles it shows. We need to see the entire part so that we can verify
 the appearance against the print. This is a requirement in the partner guide.

The formal inspection document (**Standard,Formal,CMM & FAI Report Template.xlsx**) is located here. Under the subsection 'Standard Inspection'. Please be signed into Xometry community for visibility



Formal Inspection Report

- A dimensional inspection report will be shipped with the ballooned print.
- An inspection report will need to be uploaded to the portal using excel format.
- Dimensions with less than **±.005 tolerance** can not be checked with calipers. An example of a more accurate measuring tool would be **micrometers**.
- You will need to **upload up-close and clear picture of each face/side of the finished parts** including detailed photos of any features such as **engraving**, **ink stamp**, **laser marks**, **threads/tapped holes**, **inserts or hardware**. Please refer to the print and try to take pictures from the same angles it shows. We need to see the entire part so that we can verify the appearance against the print. This is a requirement in the partner guide.
- **Bag and tag pictures** (when required) will also need to be uploaded. This will include the part being individually wrapped/bagged with a tag/label attached to the wrapping stating the required information that was provided to you or, if no labeling information was given, simply include the **part number** from the drawing. **Absolutely no tape, wire or marker is permitted on the parts.**



Must be the
Customer's
Part
Number
and Rev.

Customer
name
Not
required if
ballooning
the drawing
yourself

Formal Inspection Report (completed by Xometry)

Material type **and** material lot number

Xometry

Contact
Name from
the Traveler.
Not required if
ballooning the
drawing yourself

How Many parts in total order

Final Inspection Report

Form QA2F03 Rev 3 Supplier: XOMETRY Cage Code: 74HM3 Contact: Customer: Part Number / Part Name: Order ID: Lot Size: Rev: Sample Size: Finish: Standard Part ID: Material / Lot #: 001-005 Sample Results Columns are required to be completed. Min/Max Results will auto-populate. (Fonts: Green indicates measurement is within tolerance, Red indicates measurement is out of tolerance, Black is for Xometry internal use only. Do not change Inspection / Test Results Other Fields formatting.) Upper Lower Sample Sample Sample Sample Sample Max Result: Measurement Tool Type & ID#: Min Result: Balloon: Feature: Requirement: Notes: Limit: Limit:

Must be the **Customer's Part Name**

Xometry

Customer Part ID How Many parts inspected / List serial numbers if required The Balloon Number from the print

Formal Inspection Report (completed by Xometry)

Xometry Order ID (10 Digital Code)

>	K	on	net	r	y								<u>Fina</u>	I Inspection R	eport_	
_	### Form QA2F03 Rev 3 ustomer: Contact: Supplier: XOMETRY Cage													7.0000		
Custon				Contact	t:								Supplier: X	OMETRY	Cage Code: 74HM3	
Part No	mber /			Part Na	me:		Order ID:							Lot Size:	10	
Materi	al / Lot #:			Finish: Standard Part ID:										Sample Size: S/N:	5 001-005	
	ole Results Columns are required to be completed. Min/Max Results will auto-populate. (Fonts: Green indicates measurement is within tolerance, Red indicates measurement is out of tolerance, Black is for Xometry internal use only. Do not change formatting.) Inspection / Test Results										Other Fields					
<u>Bai</u>	loon:	<u>Feature:</u>	Feature: Requirement: Unit			<u>Lower</u> <u>Limit:</u>	Sample 1	Sample 2	Sample 3	Sample 4	<u>Sample</u> <u>5</u>	Min Result:	Max Result: Measurement Tool Type & ID # :		. <u>Notes:</u>	
1		<u>†</u>	†		*	*										
	I Di T	Lippe: Linear, iameter, Thread, Depth	What the drawing states is allowed: colerance, spec, etc.	dim unit	ake su the nensio match drawi	nal ned	limit	per of the rance		Lowe imit of Tolera	the					



Formal Inspection Report (To be completed by the partner)

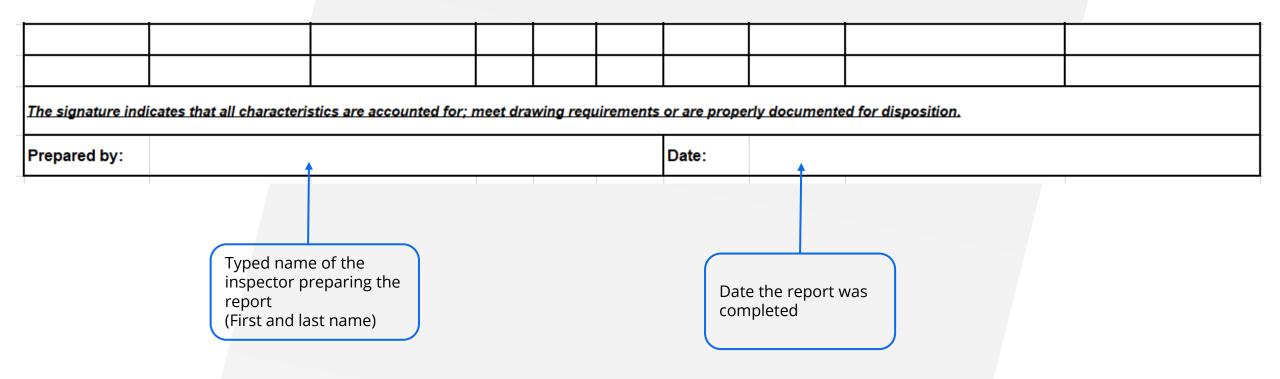
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				Forn	QA2F03 Re	v 3			_		ı		pro asking
Customer:	Co	ontact:							Supplier: XC	DMETRY	Cage Cod	le: 74HM3	you
Part Number / Rev:	Pa	art Name:							Order ID:		Lot Size:	10	comp
Material / Lot #:	Fir	inish: Standar	d						Part ID:		Sample Size S/N:	5 001-005	note
Sample Results Columns are required to is within tolerance, Red indicates n	measurement is out of tol								Inspection	n / Test Results	<u>Other</u>	<u>Fields</u>	the pa
Balloon: Feature:	Requirement: Un	Units Upper Limit:	Lower Sa	ample Sam		Sample 4	Sample 5	Min Result:	Max Result:	Measurement Tool Type & ID # :	No	tes:	
												Mu include tool ty	e the
							_					well as tool	ID
ial type. Material mber must be next to the material hen a material cert iired		List the r each inc sample		-			re M fro	ne INIMUI sult easured om the ample Si	d	The MAXIMUM result Measured from the Sample Size	be t th	he tool ID traceable to the tool mulalibrated w	must e back and ast be

List the

measuring t

the balloc **notes** from print as eit

Formal Inspection Report (To be completed by the partner)





CMM inspection reports

- The CMM reports are created on the same QA2F03 Rev 3 Template that the Formal inspection reports use.
- All dimensions are to be measured and recorded using the CMM less any hand measurements that are not achievable using a CMM. (i.e. ~ small radii, edge breaks, chamfers, threads, etc...)
- A copy of your CMM report must be uploaded to the portal as proof a CMM was used. This report is taken from your machine and does not need to be in line
 with the Xometry ballooned drawing.
- If you choose to use your own CMM report, the dimensions must be labeled to match the Xometry provided ballooned drawing or you may balloon the drawing to match your report. All balloons, including the notes from the drawing, must be on your report. The Xometry letterhead and information from the top of the Xometry report must appear on your CMM report as well.
- A dimensional inspection report will be shipped with the ballooned print.
- An inspection report will need to be uploaded to the portal using **excel format**.
- You will need to **upload up-close and clear picture of each face/side of the finished parts** including detailed photos of any features such as **engraving, ink stamp, laser marks, threads/tapped holes, inserts or hardware.** We need to see the entire part so that we can verify the appearance against the print. This is a requirement in the partner guide.
- Bag and tag pictures will also need to be uploaded when a bag and tag is required. This will include the part being individually wrapped/bagged with a tag/label attached to the wrapping stating the required information that was provided to you or, if no labeling information was given, simply include the part number from the drawing. Absolutely no tape, wire or marker is permitted on the parts.



First Article Inspection Report (FAI)

- **Report sample parts** for FAI reports are to be **labeled with the sample number** (as it corresponds with the report) typed on the label. No tape, wire tags or marker is permitted on the parts.
- A dimensional inspection report will be shipped with the ballooned print.
- An inspection report will need to be uploaded to the portal using **excel format**.
- Dimensions with less than ±.005 tolerance can not be checked with calipers. An example of a more accurate measuring tool would be micrometers.
- You will need to **upload up-close and clear picture of each face/side of the finished parts** including detailed photos of any features such as **engraving, ink stamp, laser marks, threads/tapped holes, inserts or hardware.** Please refer to the print and try to take pictures from the same angles it shows. We need to see the entire part so that we can verify the appearance against the print. This is a requirement in the partner guide.
- **Bag and tag pictures** (when required) will also need to be uploaded. This will include the part being individually wrapped/bagged with a tag/label attached to the wrapping stating the required information that was provided to you or, if no labeling information was given, simply include the **part number** from the drawing. **Absolutely no tape, wire or marker is permitted on the parts.**



First Article Inspection Report (Form 1)

This form is used to identify the product that is having the First Article Inspection (FAI) conducted on (e.g., **detail part**, **sub-assembly**, **assembly**); referred to as "FAI part."

If the job does NOT require assembly, please leave fields 15,16,17 and 18 blank.

Record **each part number** (for
assembly and any
hardware) that was
used

Record each part name that was used. (insert size and type for hardware)

Typed name of the inspector preparing the report and the Supervisor that reviewed the document for errors. (First and last name)

Xometry

			Form QAF05 Rev	/ 3				
	Form 1: F	Part Number A	Accountability					
1. Part Number	2. Part Name		3. Serial/Lot Number	r 4 FAIR Identi	fier			
5. Part Revision Level	6. Drawing Number		7. Drawing revision level	8. Additi	ional Changes			
			Tevision rever					
9. Manufacturing Proces	ss Reference (WO#) 10. Organi	ization Name	11. Supplier Code	12. Purchase	Order Number			
13. Detail:	14. Full FAI		Baseline Part Numb	Baseline Part Number including revision level				
	Partial FAI		 					
Assembly: _	Reason for Full/Partial F	AI:	.4					
a) if above part n	number is a detail part only, go to Fig	eld 19						
b) if above part n	number is an assembly, go to the "IN	IDEX" section below	<i>I</i> .					
INDEX of pa	art numbers or sub-assembl	y numbers requ	uired to make the a	ssembly note	ed above.			
15. Part Number	16. Part Name		17. Part Type		18. FAIR Identifier			
*			_		—			
19. Does FAIR Contain A	Documented Nonconformance	e(s)? Yes	No □					
20. FAIR Verified By:					21. Date:			
22: FAIR Reviewed/ Appro	ved By:				23. Date: 🔷			
24. Customer Approval:					25. Date			
26. Comments:								
FAI Status: FAI Ac	ceptable	FAI Rejecte	ed					
		2	26					

Form QA2F05 rev 3

All sample parts are to be serialized so the (sample) S/N's will need to be listed here starting with s/n 001. This is even if the customer does not require serialization. If the customer does require serialization, please follow the customer serialization numbers.

Enter whether the part is a **detail** part, sub-assembly, software, standard catalogue item, or COTS (or equivalent).

List the **sub-assembly FAIR Identifiers from the individual Reports.**

If no FAIR identifier is available, input the organization's identifier for the FAI or approved configuration.

Date the report was completed, and Supervisor approved

Material specifications and material form,
Special process
specifications; including class, if applicable, and permitted substitutions, If Commercial-Off-the-Shelf (COTS)/standard catalogue items are modified, then list the non-modified standard hardware or COTS item or part number.

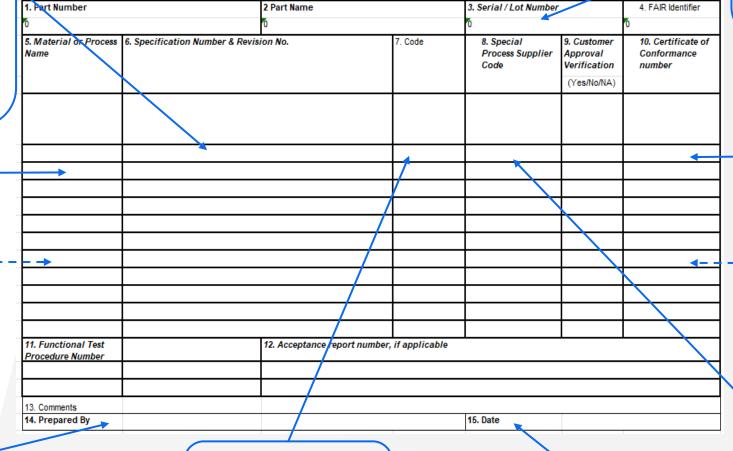
Name of materials (e.g., raw materials, paint, primer adhesives, weld filler) or special process.

Signed by Inspector (First and Last name)

Xometry

First Article Inspection Report (Form 2)

First Article Inspection Report Form QAF05 Rev 3
Form 2: Product Accountability - Raw Material, Specifications & Special Process(es) and Functional Testing



Any code specified for the material or process that is listed on the customers drawing

Date of completion

All sample parts are to be serialized so the (sample) S/N's will need to be listed here starting with s/n 001. This is even if the customer does not require serialization. If the customer does require serialization, please follow the customer serialization numbers.

PO #, Invoice #, or document # that provides linkage to the certification defining compliance. For material, this would be the material lot #, heat # or cast # as it is listed on the material cert.

For finish, the PO or cert number from the finish cert is required.

Identify organization (internal or external) **performing special process**(es) or **supplying material** (mill).

 Name, Address and Code (when available).

First Article Inspection Report

Xometry

Final Inspection Report

Material **type** and material **lot number**

Identifies the **location** of Feature **on Drawing**

Customer:				Contac	:t:					Supplie	r: XOMETRY	Cage Cod	e: 74HM3
) Part Number / R	lev:	0	0	2) Part	Name:	0				Order II	D:	4) FAIR Identifier	
/laterial / Lot #:				Finish:	Standa	rd				Part ID:		Sample Size:	2
Sample Results Co indicates measu	rement is wit	hin tolerance, R	npleted. Min/Ma ed indicates mea only. Do not cha	suremer	nt is out	of toleran	ce, Black	is for	lns	spection	/ Test Results	Other I	<u>ields</u>
<u>5) Balloon:</u>	<u>6) Zone:</u>	7) Feature:	8) Requirement:	<u>Units</u>	<u>Upper</u> <u>Limit:</u>	<u>Lower</u> <u>Limit:</u>	(Record	d Serial in Row 9 at Column	<u>Min</u> Result:	Max Result:	10) Measurement Too! Type & ID # :	11) Non Conformance Number	12) Addition Data/ Commen
							SN: 001	<u>SN: 002</u>					
		1	1		†	 		K					
he signature indica	tes that all cha	racteristics are a	ccounted for; mee	t drawin	g require	men's or	are proper	ly docume	14) Date:		<u>.</u>		

Xometry

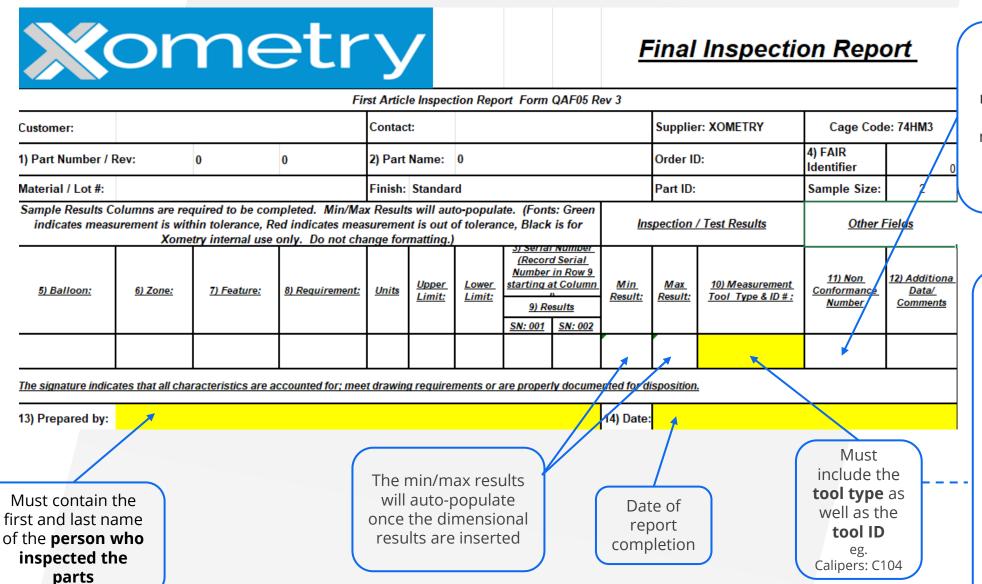
The **Feature Type**:
Linear,
Diameter,
Thread,
Depth,
Radial, etc

What is the Dimension/
Feature per the drawing

Upper and Lower limit of the Tolerance Your dimensional result from measuring the part

Continued on the next Slide!

First Article Inspection Report



If the characteristic is found to be nonconforming, record a nonconformance document reference number.

For **the** ballooned **notes** from the print list either a cert, visual, print/model/C AD, the tool used or even N/A if there is no process. It is asking what "tool" you used to complete those notes to make the parts match the print.

First Article Inspection Report



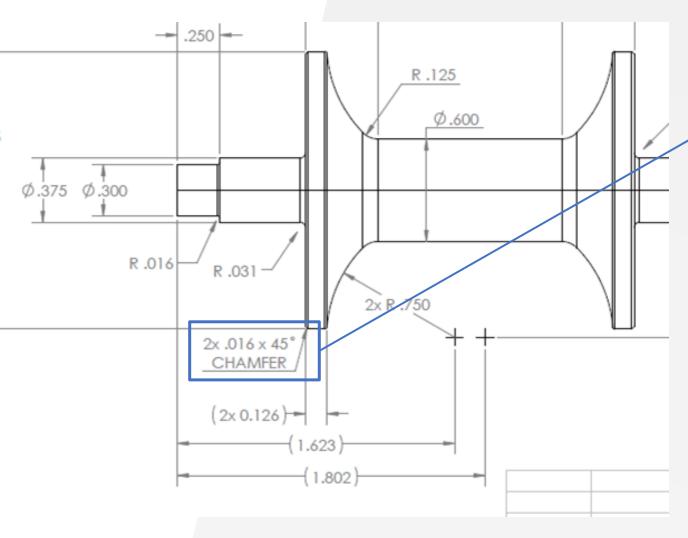
Final Inspection Report

			Fir	st Articl	e Inspect	tion Repo	rt Form	QAF05 Re	ev 3				
Customer:				Contac	t:					Supplie	r: XOMETRY	Cage Code	e: 74HM 3
1) Part Number / F	Rev:	0	0	2) Part	Name:	0				Order ID):	4) FAIR Identifier	0
Material / Lot #:				Finish:	Standar	d				Part ID:		Sample Size:	2
Sample Results C indicates meas	urement is with	hin tolerance, Re	pleted. Min/Ma ed indicates meas only. Do not cha	suremen	nt is out o	of toleran	ce, Black	is for	<u>lns</u>	pection /	/ Test Results	Other Fields	
5) Balloon:	6) Zone:	7) Feature:	8) Requirement:	<u>Units</u>	Upper Limit:	Lower Limit:	(Record Number starting a		Min Result:	<u>Max</u> <u>Result:</u>	10) Measurement Tool Type & ID # :	11) Non Conformance Number	12) Additiona Data/ Comments
The signature indica	ates that all cha	racteristics are a	ccounted for; mee	t drawing	g requirei	nents or a	re properi	ly docume	nted for di	sposition.			
13) Prepared by:									14) Date:				

Must Be Filled out. Click on each tab to access.

Xometry

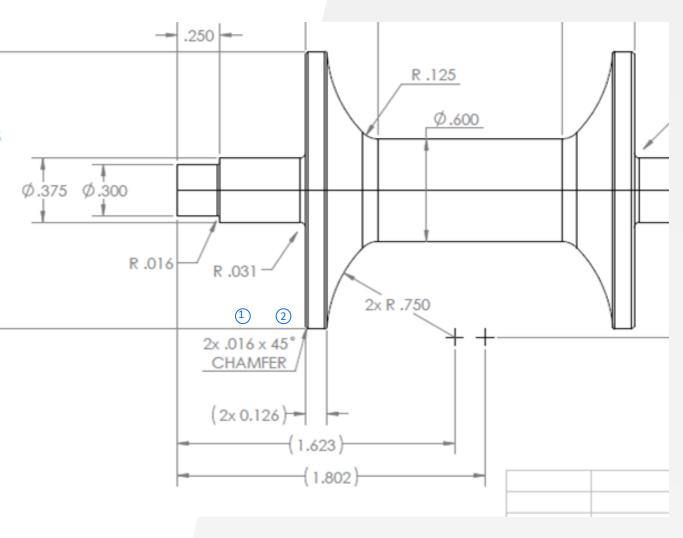
Form1 Form2 Sample1



When ballooning a FAI report, **features** are required to be broken down into several balloons

- The example shown will require two tools/methods to complete inspection for the features
 - 1: Chamfer length
 - 2: Chamfer angle

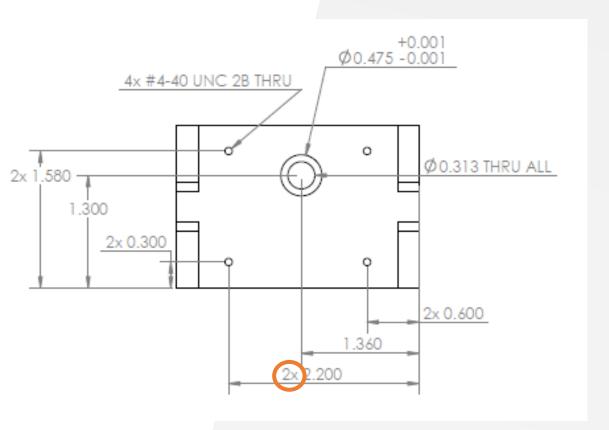




This dimensional requirement would be converted into **(2) ballooned** features

- The distance (.016) seen as balloon 1
- The angle (45°) seen as **balloon 2**





The circled data is stated to be a repeated feature (2) times.

- What does this look like on a formal inspection report?
- What does this look like on a FAIR



Formal Inspection

									1				
Balloon:	Feature:	Requirement:	Units	Upper Limit:	Lower Limit:	Sample 1	Sample 2	ī	lin Result:	Max Result:	Measurement Tool Type & I		
1	2.2	± 905	in	2.2050	2.1950	2.1980	2 2030		2.1980	2.2030	Gage pin .0849, Calipers Ct1		

When the drawing calls the feature to be iterated, the **feature can be documented under one balloon**

- The min and max result of all the features will auto - populate as the sample results are entered.

FAIR

Balloon:	Zone:	Qty:	Feature:	Requirement:	Results:	Measurement Tool Type & ID # :	Non-Conformance Number:	Notes:
1.1	A1	1	2.2	±.005"	2.198	Gage Pin .0849, Calipers C101		
1.2	A1	1	2.2	±.005"	2.203	Gage Pin .0849, Calipers C101		

When the drawing calls the feature to be duplicated, the **inspection document must sub-bullet** the duplications to be **identified individually**

The inspection document must identify each iteration of the features a sub-balloon (eg. 1.1,1.2,1.3)



Pictures to be Uploaded to the Portal

Part Photos

- Up close and clear **Pictures of Each side** of the clean and finished part.
- Report sample parts for FAI reports are to be tagged or bagged with the sample # (as it corresponds with the report) typed on the label. No tape, wire tags or marker is permitted on the parts.
- Up close and clear picture of any features such as engraving, ink stamp, laser marks, threads/tapped holes with countersink, inserts or hardware.





Bag and Tag

- A bag and tag picture will be required when listed on the print, traveler or PO.
- Parts can be wrapped in bags, bubble wrap, brown paper, saran wrap or any other packaging you ship your parts in. This includes large parts packed in crates.

NOTE: When no bag and tag information is provided, label the wrapped part with the **part number** from the drawing on a typed label. Ask Xometry if instructions are unclear.



Hardware

Any hardware that was required to be installed, per the PO, will need an up close and clear picture uploaded to the portal by the partner.

NOTE: Review **drawing** for **hardware** installation **directionality.** Ask Xometry if instructions are unclear.





Shipping Documents

All required documents are to be uploaded to the portal and a **physical copy must be shipped with the parts** (standard reports do not shipped to the customer but must be uploaded to the portal.)

Make sure the GD&T font shows correctly on your printed report. If there is an issue, please refer to page 10 of this document for instructions on correcting the font.

The digitally signed Xometry CoC must be printed and shipped with the parts in place of the original Xometry CoC.

If all **required documentation is not shipped with the parts**,(including a copy of the ballooned print)this is considerate a non conformance and is treated as such on the partner's score: eg rejected part.

NOTE: Validate the proper information such as customer naming and customer revision is correct or required paperwork. This can also lead to a rejected part to impact the partner's score



Virtual Quality Check (VQC)

A **VQC** shall be **required** if:

- Your **quality score** has dropped below **86**
- The **customer** has **requested Xometry** to **look** at the **parts** before they ship
- Your **job** was **chosen** at **random** to **audit** our direct ship quality process
- A customer has received non-compliant parts
- You have **completed** a **job** that requires a **Formal/CMM or FAIR Inspection**

Xometry Community VQC Link



Common VQC Challenges

- Sending an email to Xometry instead of using the "request VQC" function on the portal.
- Requesting VQC through other support channels or with the case manager instead of utilizing the "request VQC" function on the portal.
- Not including the material or finish specifications on the Xometry CoC (Certificate of Conformance).
- Not including the material type or lot number in the upper left corner on the reports.
- Not including inspection tool ID numbers on the reports
- Not uploading the **Formal, FAI CMM report** as an **excel document**.
- Missing photos of bag and tags or close up, clear pictures of inserts and part markings
- **Not receiving prior approval for any deviations** (such as a different specification of material or finish spec)
- For jobs requiring CMM inspections, please be sure to upload your CMM data from your CMM as well as the Xometry CMM report. This is a new requirement.
- All **certification documentation** must be uploaded in **PDF format**. Example is Xometry CoC, material cert, finish cert... All **Formal**, **CMM and FAI Reports must be uploaded using Excel format**.

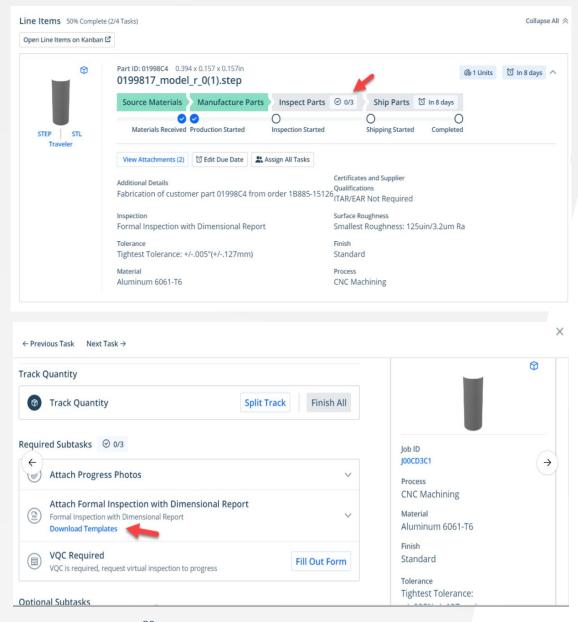
Xometry Community VQC Link



Navigating the Portal

Click here to get to the inspection documents

This is where you will find the inspection report template

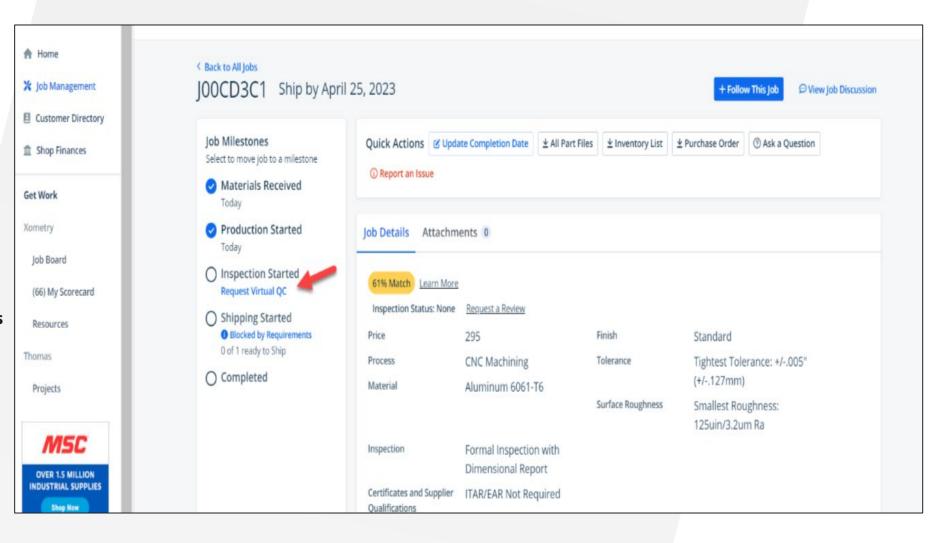




Navigating the Portal

Click here to request VQC inspection

Sending an email to VQC@xometry.com is not recommended. By clicking the shown button, your request takes the fastest route directly to our inspector que.





Once you have clicked the "**Request VQC**" feature in the portal, your request in automatically entered in our que (for the entire job) and the next available VQC inspector will begin your inspection.

You will receive an email from our inspector notifying you if there are revisions that are required or if you are unblocked to ship.

If you have revisions to make, please do so and then **reply to the email chain that you already have established with the inspector**. **There is no need to submit another VQC request** because your job is already in process.

Once the inspection is complete, you will be able to access the packing slip and shipping labels in the portal.

We take great pride in helping you successfully complete the inspections and are always here to help you through the process. This partnership insures the customer receives all documentation exactly the way they required!

Thank You for all you do!

