

# **GR-QUA-0200-02**

## **DWFritz Material Certification Requirements**

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## 1 Objective

The objective of this procedure is to define general expectations for material certifications as requested on parts and products purchased by DWFritz.

## 2 Scope

This Procedure applies to all businesses, sites, and functions operating under the DWFritz Quality Management System.

## 3 Responsibilities

**Note:** When a title of a position is listed in this Guideline/Reference, it relates to that position or its equivalence.

The following roles and responsibilities are noted:

Role	Responsibility
Buyer	Creates and sends purchase orders, primary communication with supplier, or gathers missing documentation communication between DWFritz and Supplier.
CM	Initiates conversations on material certifications with supply base so that they are aware of DWFritz's ongoing improvement efforts.
ME	Mechanical Engineer is responsible to determine material certifications requirements and provide appropriate documentation to ensure clear communication to the supplier.
PM	Project Manager is the final decision maker on whether a document is acceptable. The PM is responsible to coordinate/communicate with Engineering on this decision.
Quality	Inspects documents at DWFritz and leads discussion to determine pass or reject of documents according to this document.
Supplier	Provides parts and/or services according to Purchase Order, drawings and/or other written directions from DWFritz.

Role	Responsibility
SQE	Supplier Quality Engineer is the primary point of contact for quality issues.

#### 4 Reference Documents

Document ID	Title
NA	NA

#### 5 Definition of Terms

This section presents definitions of terms used in this document.

Term	Definition
Material Certification	A document that provides a material's chemical and, in some cases, physical properties and states a product made of metal is in compliance with specific standards of international standards organizations such as ANSI, ASME, etc., bears the Heat Number from the cast from which the material was created and any quality assurance or testing information.

## 6 Guideline/Reference Overview

Refer to this document to ensure the ability to meet the basic requirements described below prior to quoting parts. For any questions or concerns, please contact the DWfritz buyer, Commodity Manager, or SQE.

## 7 Guideline/Reference

### 7.1 General expectations

- 7.1.1 Maintain traceability between parts produced and raw material certification.
- 7.1.2 Send material certification physically with parts shipped. An electronic copy can be emailed to the DWfritz Buyer and SQE, but at a minimum, the hard copy must accompany the parts.
- 7.1.3 Chemical analysis, Mechanical properties and hardness data per domestic or international standards. Standard used needs to be identified on the certificate.

### 7.2 Examples

**METALLURGICAL TEST REPORT**

Certificate: 451814 01      Ship To:      Date: 10/01/2018      Page: 1 of 1

Customer:      NAS Order: LP 92638 1      Heat Treat Code: 49,574      Steel: 303  
 Your Order:      Item Code: 14154      Corrosion:      Finish: Cold Draw  
 Dia/Thk: .5000 in  
 Leg Length:      Length: 144.00 in

**PRODUCT DESCRIPTION:**  
 Round Bar, Annealed, Cold Draw  
 UNS 30300, ASTM A582/17 EN 10204 3.1, ASTM A484/18  
 AMS 5640V TYPE 1, QQ-S-7543 CONDITION A  
 SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12B

**REMARKS:**  
 COMPLIES W/REQUIREMENTS OF DPAR 252.225-7009 EU DIRECTIVE  
 2011/65/EU.ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG  
 IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight
B0785015	2100							


ANAB, ISO/IEC 17025, Certificate# L2323  
 Chemical Analysis per ASTM A751/14a

CHEMICAL ANALYSIS		CM(Country of Melt)	ES(Spain)	US(United States)	ZA(South Africa)	JP(Japan)						
NAS Heat	Supplier Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
971C		US	.022	.14	17.15	.25	1.91	.309	.046	8.59	.032	.3035
			SI %									
			.38									

**MECHANICAL PROPERTIES**

1 d o s e f	HB	No.	.2YS KSI	UTS KSI	RA %	Elog % 2"
B0785015	R L	184.0	72.87	101.08	51.31	43.98

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

Technical Dept. Mgr.   
 KRIS LARK



## TRANSCRIPT OF INSPECTION DOCUMENT

EN 10204-3.1

P.O.No.:

No.:

Product:	1.4305 Stainless Steel		
Size:	Φ85		
Net Weight:	6573kgs		
Heat treatment	Forms of supply	Heat No.	Sample.No.
		18110601	

## Chemical analysis in %

C	Si	Mn	P	S	Cr	Ni	Mo	Al	Cu
0.043	0.40	1.08	0.04	0.20	17.19	8.05			
Ti	V	W	Co						

## Mechanical Properties

Test Specimen	Pos.of Test	Temp C	Re/mm 0.2 1%	Rm N/mm	A %	Z %	KU J	KV J

Hardness HB

US-Control according to Specification: SEP 1921, group 2, class D/d

TAIUNION GMBH  
Productmanagement

We hereby certify that the present inspection document reproduces the substantial values of the mill test certificate and complies with the terms of the order contract.

### 8 Document Change Record

Date	Author	Revision	Change Reference
5/27/2020	John Hawkins	0	<a href="#">DCR#00629</a>