QRS-103_Appendix 1

Metallic Raw Material Checklists

(For reference use only)

Issue Date: October 2026 **Issue:** 00

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CHANGES LOG

Issue	Approval Date	Main changes	Interested Paragraphs
00	October 2026	First Issue	All

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SAMPLE CHECKLIST for AMS4928
Scope : Checklist applicable to titanium alloy in the form of bars, drawn shapes up through 10.000 inches (254.00 mm) inclusive in diameter or least distance between parallel sides and stock of any size for forging or flash welded rings.

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<table>
<tr><th>N</th><th>Par.</th><th>Question</th><th colspan="3">Answer</th></tr>
<tr><td>1</td><td>N/A</td><td>Is the report available in English?</td><td>YES</td><td>NO</td><td></td></tr>
<tr><td>2</td><td>N/A</td><td>When the Purchase Order was issued was the produced approved by LH?</td><td></td><td></td><td></td></tr>
<tr><td>3</td><td>4.4.1</td><td>Is the Producer identity available on the report?</td><td>YES</td><td>NO</td><td></td></tr>
<tr><td>4</td><td>4.4.1</td><td>Is the Country of Melt (final melt) available on the report?</td><td>YES</td><td>NO</td><td></td></tr>
<tr><td>5</td><td>4.4.1</td><td>Are Test Results for composition of each heat according to the Table below?

<table>
<tr><th>Element</th><th>Min</th><th>Max</th></tr>
<tr><td>Aluminum</td><td>5,50</td><td>6,75</td></tr>
<tr><td>Vanadium</td><td>3.50</td><td>4,50</td></tr>
<tr><td>Iron</td><td></td><td>0,30</td></tr>
<tr><td>Oxygen</td><td></td><td>0,20</td></tr>
<tr><td>Carbon</td><td></td><td>0,08</td></tr>
<tr><td>Nitrogen</td><td></td><td>0,05 (500ppm)</td></tr>
<tr><td>Hydrogen (3.1.1)</td><td></td><td>0,0125 (125ppm)</td></tr>
</table>
The Hydrogen content shall be performed on each lot.</td><td>YES</td><td>NO</td><td></td></tr>
<tr><td>6</td><td>4.4.1</td><td>Are test results of tensile properties compliance to the table below?

Table 2B - Minimum tensile properties, SI units
<table>
<tr><th>Nominal Diameter or Least Distance Between Parallel Sides Millimeters</th><th>Tensile Strength MPa</th><th>Yield Strength at 0.2% Offset MPa</th><th>Elongation in 50.8 mm or 4D % Long.</th><th>Elongation in 50.8 mm or 4D % L.T.</th><th>Elongation in 50.8 mm or 4D % S.T.</th><th>Reduction of Area % Long.</th><th>Reduction of Area % L.T.</th><th>Reduction of Area % S.T. (2)</th></tr>
<tr><td>Up to 50.80, incl (1)</td><td>931</td><td>862</td><td>10</td><td>10</td><td>--</td><td>25</td><td>20</td><td>--</td></tr>
<tr><td>Over 50.80 to 101.60, incl</td><td>896</td><td>827</td><td>10</td><td>10</td><td>10</td><td>25</td><td>20</td><td>15</td></tr>
<tr><td>Over 101.60 to 152.40, incl (3)</td><td>896</td><td>827</td><td>10</td><td>10</td><td>8</td><td>20</td><td>20</td><td>15</td></tr>
<tr><td>Over 152.40 to 254.00, incl</td><td>896</td><td>820</td><td>10</td><td>10</td><td>8</td><td>20</td><td>20</td><td>15</td></tr>
</table>
Note: Long. = Longitudinal
L.T. = Long-Transverse
S.T = Short-Transverse

Be aware that:
• Tensile and yield strength requirements apply in the longitudinal and the long and short transverse directions. Transverse requirements in</td><td>YES</td><td>NO</td><td></td></tr>
</table>

		Table 2 apply only to product that a tensile specimen not less than 2.50 inches (63.5 mm) in length can be obtained. • Tests in transverse directions are not required on product tested in the longitudinal direction unless specified by purchase order. • Yield strength and reduction of area requirements do not apply to drawn shapes with maximum section thickness under 0.125 inches (3.18 mm) in nominal diameter. • Mechanical property requirements for product outside the range covered by **the scope of this checklist** shall be agreed upon between purchaser and producer.			
7	**4.4.1**	Is there a statement that the product is compliance to the other technical requirements?	**YES**	**NO**	
8	**4.4.1**	Is the PO number available on the report?	**YES**	**NO**	
9	**4.4.1**	Is the Lot number available on the report?	**YES**	**NO**	
10	**4.4.1**	Is the conformity to the standard AMS 4928W undouble stated?	**YES**	**NO**	
11	**4.4.1**	Is the product form and mill produced size (and/or part number, if applicable) available on the report?	**YES**	**NO**	
12	**4.4.1**	Is the specific HT used available on the report? (704-788°C for ≥ 60minutes)	**YES**	**NO**	
13	**4.4.1**	Is the quantity available on the report?	**YES**	**NO**	
14	**4.4.3**	In case the material produced to this specification (AMS4928W) is beyond the sizes allowed in the scope or tables, or other exceptions are taken to the technical requirements, is available the following statement: "This material is certified as AMS4928W(EXC) because of the following exceptions:" on the report with the specific exceptions listed?	**YES**	**NO**	**N/A**

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