Quality assurance conditions
Longtexts to QAC number-codes

002: Delivery of parts only with up-to-date BAAINBw or RHEINMETALL approval.

088: Delivery terms for products with limited shelf life
- Minimum Shelf life of the goods less than 12 months:
  The goods must be delivered no later than 4 weeks after the date of production.
  The date of manufacture on the part and/or packaging must be affixed in an unencrypted
  and uncoded manner and clearly identifiable.
- Minimum Shelf life of the goods equal to 12 months:
  A remaining shelf life of the product of at least 9 months from delivery must be guaranteed
  by the supplier.
  The date of manufacture on the part and/or packaging must be affixed in an unencrypted
  and uncoded manner and clearly identifiable.
- Minimum shelf life of the goods of more than 12 months:
  A remaining shelf life of the product of at least 12 months or ¾ of the entire shelf life
  from delivery must be guaranteed by the supplier.
  The date of manufacture on the part and/or packaging must be affixed in an unencrypted
  and uncoded manner and clearly identifiable.

089: Marking with date of manufacturing
The date of manufacture on the part and/or packaging must be affixed in an
unencrypted and uncoded manner and clearly identifiable.
The age must not exceed 6 months on delivery.

090: Marking with date of manufacture
The date of manufacture on the hose line must affixed in an unencrypted and uncoded
manner and clearly identifiable.
The age must not exceed 6 months on delivery.

091: Marking with date of manufacture
The date of manufacture on the part and/or packaging must be affixed in an unencrypted
and uncoded manner and clearly identifiable.
The age must not exceed 12 months on delivery.

111: Welding certification according to DIN 2303 Q1 BK1
The supplier bindingly confirms with the tendering or with the order confirmation that he
has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required
in the drawings.
At the time of production a qualified welding procedure test must be available that is
representative of the required production situation (basic material, filler material,
component geometry and thickness, type of weld, welding position etc.).
Questions must be directed via purchasing to the special welding engineer.

112: Welding certification according to DIN 2303 Q1 BK2
The supplier bindingly confirms with the tendering or with the order confirmation that he
has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834
required in the drawings.
At the time of production a qualified welding procedure test must be available that is
representative of the required production situation (basic material, filler material,
component geometry and thickness, type of weld, welding position etc.).
Questions must be directed via purchasing to the special welding engineer.
**Quality assurance conditions**

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113: Welding certification according to DIN 2303 Q1 BK3
The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings.
At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.).
Questions must be directed via purchasing to the special welding engineer.

121: Welding certification according to DIN 2303 Q2 BK1
The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings.
At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.).
Questions must be directed via purchasing to the special welding engineer.

122: Welding certification according to DIN 2303 Q2 BK2
The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings.
At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.).
Questions must be directed via purchasing to the special welding engineer.

123: Welding certification according to DIN 2303 Q2 BK3
The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings.
At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.).
Questions must be directed via purchasing to the special welding engineer.

131: Welding certification according to DIN 2303 Q3 BK1
The supplier bindingly confirms with the tendering or with the order confirmation that he has the relevant welding certifications according to DIN 2303 as well as EN ISO 3834 required in the drawings.
At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.).
Questions must be directed via purchasing to the special welding engineer.
**Quality assurance conditions**
Longtexts to QAC number-codes

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**132: Welding certification according to RHEINMETALL specification**

The supplier bindingly confirms with the tendering or with the order confirmation that he has a RHEINMETALL welding certification according to technical specification 4100100-000000.130.0 as well as EN ISO 3834. This specification also refers to the component classes as well as the processes to be carried out in the material groups according to DIN technical report CEN ISO/TR 15608 according to "Certification of manufacturer’s qualification DIN 2303". At the time of production a qualified welding procedure test must be available that is representative of the required production situation (basic material, filler material, component geometry and thickness, type of weld, welding position etc.).

Questions must be directed via purchasing to the special welding engineer.

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**First Article Inspection – QAC 205 to 209**

**Basics:**

Before delivery of the first serial device/article, the required initial sample inspection must be completed positively. The basis for the initial sample inspection is the supplier guide (SP06-TAC-002-A001) in its current version.

It is essential that the initial sample test report, which is completely prepared by the supplier, is enclosed with the delivery of the initial sample. The required presentation level, which indicates which documentation is to be provide for the initial sample, can be taken from the respective order on the basis of the assigned QAC codes.

To document the initial sample inspection, the Supplier must download a corresponding table of contents (document SP06-TAC-002-A003) from the Customer’s website if this is not enclosed with the order placed by RHEINMETALL Purchasing. This table of contents indicates which documentation must accompany the delivery. The Supplier must fill in and sign the table of contents accordingly and enclose it with the first sample delivery.

Series production will then be released after positive inspection of the initial sample and the associated documentation by the inspector or RHEINMETALL’s quality management department. The inspection is either carried out as part of the incoming goods inspection of the initial sample (QAC requirement 205 to 208), but can also be carried out as part of an on-site visit to the supplier (QAC requirement 209).

In the case of QAC specification 209 (acceptance by RHEINMETALL on site at the supplier's premises), the supplier must apply for acceptance at RHEINMETALL accordingly at least 14 days before the initial sample inspection is carried out.

Series deliveries without written release by RHEINMETALL will always be rejected in the incoming goods department and sent back if necessary.

In principle, RHEINMETALL reserves the right, in agreement with the supplier, to participate in the initial sample inspection at the supplier's premises, irrespective of the QAC specification.

The supplier/manufacturer must carry out a new initial sample inspection at:

- Use of new manufacturing and production processes
- Use of new machines or tools
- Use of modified materials
- Extensive tool changes and / or repairs
- Relocation of the production site
- Interruption of production over a longer period of time (≥ 24 months)
- Repetition at special request of RHEINMETALL
Marking:
The first sample shall be separately marked with tags, labels, or adhesive tape showing the following details:

- First sample
- Drawing number
- Material number
- Naming
- Order number

The supplier is engaged to perform tests and inspections on the item to be delivered according to IPC-A-610 class 3 (Acceptance criteria for electronic assemblies). Certificates shall be enclosed with the delivery.

205 – First Article Inspection according to submission level 1
The supplier is solely responsible for the first article inspection (FAI).
With submission level 1, it is not necessary to send documentation with the first article delivery.
The supplier is responsible for archiving all documents required for the first article inspection. These documents must be made available on request of RHEINMETALL.
The approval of the first article is the responsibility of the supplier. No further approval by RHEINMETALL is required.

206 – First Article Inspection according to submission level 2
The supplier bears the primary responsibility for the first article inspection and sends the following documentation with delivery of the first article:

- signed cover or release sheet of the first article inspection report
- completed and signed table of contents (SP06-TAC-002-A003).

The supplier is responsible for archiving all other documents required for the first article inspection. These documents must be made available on request of RHEINMETALL.
The first article is released by RHEINMETALL by confirmation on the cover or release sheet of the first article inspection report.

207 – First Article Inspection according to submission level 3
The supplier bears the primary responsibility for the first article inspection and sends the following documentation with delivery of the first article:

- signed cover or release sheet of the first article inspection report
- completed and signed table of contents (SP06-TAC-002-A003)
- all available measurement and test reports acc. Position 3 from the table of contents SP06-TAC-002-A003
- Material certificates / material certificates acc. Position 5 from the table of contents SP06-TAC-002-A003
- Any requests for deviation released
- First article inspection for parts / components of subcontractors of the contractor

The first article is released by RHEINMETALL by confirmation on the cover or release sheet of the first article inspection report.
208 – First Article Inspection according to submission level 4 (Full sampling)

The supplier bears the primary responsibility for the first article inspection (FAI) and sends the following documentation with delivery of the first article:

- signed cover or release sheet of the first article inspection report
- completed and signed table of contents (SP06-TAC-002-A003)
- all available measurement and test reports acc. Position 3 from the table of contents SP06-TAC-002-A003
- List of subcontractors of the contractor
- Material certificates / material certificates acc. Position 5 from the table of contents SP06-TAC-002-A003
- Production and process descriptions / process evidence / approval evidence of work and test plans
- Declaration of conformity by the contractor
- Any requests for deviation released
- First article inspection for parts / components of subcontractors of the contractor

The first article is released by RHEINMETALL by confirmation on the cover or release sheet of the first article inspection report.

209 – First Article Inspection according to submission level 4
Full sampling by RHEINMETALL on site at the supplier

The supplier bears the primary responsibility for the first article inspection and implements the following documentation on the acceptance date of the first article:

- signed cover or release sheet of the first article inspection report
- completed and signed table of contents (SP06-TAC-002-A003)
- all available measurement and test reports acc. Position 3 from the table of contents SP06-TAC-002-A003
- List of subcontractors of the contractor
- Material certificates / material certificates acc. Position 5 from the table of contents SP06-TAC-002-A003
- Production and process descriptions / process evidence / approval evidence of work and test plans
- Declaration of conformity by the contractor
- Any requests for deviation released
- First article inspection for parts / components of subcontractors of the contractor

The first article is released by RHEINMETALL by confirmation on the cover or release sheet of the first article inspection report.
Quality assurance conditions
Longtexts to QAC number-codes

300: Certificates of origin
For the deliveries of the goods ordered, we ask for the timely sending of the customs tariff number and a long-term supplier declaration for the current year for deliveries with origin in the European Community / from countries with which there is a preferential agreement with the European Community.
Particularity: For all goods of this order the specific country of origin must be stated in addition to the standard common European Declaration of Origin!

For deliveries of goods from other third countries we ask for a certificate of origin. A long-term declaration IHK for the non-preferential origin is also welcome.
Invoices from manufacturers in Germany or the European Union can be accepted as certificates of origin if they include a manufacturer’s declaration with indication of origin and thus it is shown that the goods were manufactured in the manufacturer’s own factory and their non-preferential origin is in Germany or the European Union.

Kindly send the certificates of origin to:
Rheinmetall MAN Military Vehicles GmbH / Rheinmetall Landsysteme GmbH
PRO – Exportdokumente
Henschelplatz 1
34127 Kassel – GERMANY
or by email to: rmv.exportdokumente@rheinmetall.com
Please note that we cannot accept your invoice if the corresponding certificate of origin is not available.

301: The goods must be delivered with a factory certificate “2.2” according to DIN EN 10204 with non-specific tests. The goods and the factory certificates must be marked in such a way that the factory certificates can be assigned to the goods.
The delivery must be accompanied by the certificates.

304: The goods must be delivered with an acceptance test certificate “3.1” according to DIN EN 10204 with specific tests. The goods and the acceptance test certificate must be marked in such a way that the acceptance test certificates can be assigned to the goods.
The delivery must be accompanied by the certificates.

309: A factory certificate 2.2 according to DIN EN 10204 with non-specific tests must be delivered for the assembly. The material of the individual parts used must be stated in the order documents and must be procured by the contractor with acceptance test certificate 3.1 according to DIN EN 10204.
An assignment of the individual parts to the respective acceptance test certificates 3.1 must be listed in a “Declaration of conformity of the provider” according to DIN EN ISO/IEC 17050-1 and 2. Proper allocation of the acceptance test certificates 3.1 for the order and assembly must be ensured by you by marking the assembly at the prescribed / a suitable spot.
Certificates as well as the acceptance test certificates of the individual parts must accompany the delivery.
312: A test report is to be created for the component / assembly. The scope of the test characteristics to be certified can be found in the specifications listed in the drawing (e.g. test dimensions), as well as the applicable standards and regulations, our applicable test specification (PV), and / or the respective measurement sheet. The test results are to be recorded by the supplier in the "Measurement sheet supplier MB-0002". The document can be found on the relevant Rheinmetall Defence homepage under the heading "Supplier information". The test equipment used must be listed in the test report in order to ensure clear traceability. The completed test report (including target / actual values) must be enclosed with your delivery.

319: The prematerial must be quality-tested by the BAAINBw. The quality test must be confirmed on the delivery note with the associated acceptance test certificate or on the acceptance test certificate itself. The delivery must be accompanied by certificates.

320: For the prematerial an acceptance test certificate according to EN 10204-3.1 must be delivered. Scope of testing and marking can be found in the corresponding order documentation. The delivery must be accompanied by certificates. Proper allocation of the certificate to the order and the goods must be ensured by you by marking the goods at the prescribed/suitable spot.

321: Tested round stele chains Test certificate and marking must be carried out according to DIN 685 part 4. The delivery must be accompanied by certificates.

322: For the assembly a factory certificate according to EN 10204-2.2 with test results of the pressure test must be created. Test equipment used must be listed in the test report to ensure clear traceability. The documentation must be archived at the manufacturer and must be presented to RHEINMETALL on request.

324: For the prematerial a factory certificate according to EN 10204-2.2 must be delivered. The delivery must be accompanied by certificates.

333: A test protocol must be created for the component/the assembly. The scope of the test characteristics to be certified can be found in the specifications listed in the drawings (e.g. test mass) as well as the applicable standards and provisions, our applicable test specification (PV) and/or the respective test sheet. Test equipment used must be listed in the test report to ensure clear traceability. The documentation must be archived at the manufacturer and must be presented to RHEINMETALL on request.
Quality assurance conditions
Longtexts to QAC number-codes

401: The supplier/manufacturer undertakes to provide the RHEINMETALL quality management with test specifications for testing and approval. Test equipment to be used must be listed in the test protocol to ensure clear traceability. The test specifications must also contain the required performance data that must be proven, or that contains information on what is tested.

402: The supplier/manufacturer undertakes to create an inspection schedule on placement of the order and forward it to the RHEINMETALL quality management for testing and approval.

403: The supplier/manufacturer undertakes to create a quality assurance plan (quality management plan) on placement of the order and forward it to the RHEINMETALL quality management for testing and approval.

501: All requirements of this contract / order can be subject to official quality assurance. You will be notified of any official quality assurance measures to be carried out.

This order is subject to official quality assurance in your company and the processing must meet the requirements of the applicable AQAP, which are also listed in the contract / or in the order. According to the respective sub-contract, a relevant AQAP claim must be passed on to your UAN.

Official quality assurance takes place
- INLAND: by the Bundeswehr quality inspector,
- ABROAD: by your government’s GQAR.
The quality control service will inform you about the official quality assurance. You must report the readiness for official quality assurance to the quality inspection agency in good time so that timely delivery is not hindered.

In the case of repair procedures in accordance with BAAINBw-IRV, the quality inspector must be provided with the evidence of the working time actually incurred and the material actually incurred in order to prepare partial certificates and for budgetary examination.

Official quality assurance is to be certified on the delivery note in Germany by the quality inspection service, and abroad on the form of conformity certificate according to AQAP - 2070 (Appendix B).

601: The supplier/manufacturer must create a declaration of conformity according to the EU directive applicable for this part. The documents required for these directives and the operating instructions must be delivered in German as well as in the national language specific to this order.

701: A visual inspection must be carried out on the delivery item in accordance with the relevant and valid regulations (e.g. DIN EN ISO 17637, DIN EN 1370, 10163-1 to 3). The scope of testing includes 100% of the parts to be delivered.
Quality requirements and assessment groups can be found in the currently valid, constructive documents.
The test and auxiliary materials used must be listed in the test report in order to ensure clear traceability. The documentation must be archived at the manufacturer and submitted to RHEINMETALL on request.
Quality assurance conditions

705: An x-ray test according to drawing/x-ray plan must be carried out for the delivery item. Scope of testing/testing frequency can be found in the applicable documents (ZE, standard, TD etc.). Test equipment must be listed in the test report to be able to ensure clear traceability. The report must be enclosed in the delivery.

706: An ultrasonic test according to the drawing must be carried out for the delivery item. Scope of testing/testing frequency can be found in the applicable documents (ZE, standard, TD etc.). Test equipment must be listed in the test report to be able to ensure clear traceability. The report must be enclosed in the delivery.

709: The profile, the line, the concentricity deviation and the base tangent length must be shown in a measurement report. Test equipment used must be listed in the test report to ensure clear traceability. The report must be enclosed in the delivery.

710: The base tangent length must be recorded. Testing equipment used must be listed in the test report to be able to ensure clear traceability. The report must be enclosed in the delivery.

711: The characteristics of the heat treatment required in the drawing must be confirmed in a report/certificate. The report must be enclosed in the delivery.

759: A pressure test must be performed for the delivery item. The test data can be found in the drawing. Test equipment used must be listed in the test report to ensure clear traceability. The report must be enclosed in the delivery.

763: A crack test must be carried out for the delivery item. The procedure is stated in the drawing. If there is no specification in the drawing, the procedure can be set by the manufacturer. Scope of testing/testing frequency can be found in the applicable documents (ZE, standard, TD etc.). Testing equipment used must be listed in the test report to be able to ensure clear traceability. The report must be enclosed in the delivery.

769: A layer thickness test must be carried out for the delivery item. Test equipment used in the test report must be listed to ensure clear traceability. The report must be enclosed in the delivery.

770: Surface preparation according to DIN EN ISO 12944-4 A 2½. Rolling skin, rust, coatings and foreign bodies are removed. Remaining traces of contaminations must only be detectable as slight stains or stripy shades.

803: Execution of the traverse according to the accident prevention regulation VBG 9A.
Quality assurance conditions
Longtexts to QAC number-codes

902: DIN EN ISO 9001
The supplier/manufacturer undertakes to maintain a quality management system according to DIN EN ISO 9001 in the respective latest version.

RHEINMETALL representatives have the right to convince themselves of the effectiveness of the quality management system at the supplier and his subcontractor (e.g. in the form of an audit).
The supplier also undertakes to agree on a suitable quality assurance (e.g. in the form of a DIN EN ISO) appropriate for the subcontractor item also with his subcontractors and to monitor these effectively.

903: DIN EN ISO 9001 (exclusions allowed)
The supplier/manufacturer undertakes to maintain a quality management system according to DIN EN ISO 9001 (exclusions permitted) in the respective current version.

RHEINMETALL representatives have the right at any time to convince themselves of the effectiveness of the quality management system on site at the supplier and his subcontractors (e.g. in the form of an audit).
The supplier also undertakes to agree on a suitable quality assurance (e.g. in the form of a DIN EN ISO) appropriate for the subcontractor item also with his subcontractors and to monitor these effectively.

905: AQAP 2110 (development, design, production)
If relevant, the requirements of AQAP 2110 for development, design, production must be met. The respective relevance, which requirements apply in the course of the order, can be found in the corresponding order to the supplier. A quality management plan based on the requirements of AQAP 2105 must be drawn up.

We ask for the certificate to be handed over or, if not available, for a description of the QM system.
RHEINMETALL representatives and the main client or his representative (e.g. quality inspection service) have the right to convince themselves of the effectiveness of the quality management system and the contractual performance of the services during ongoing production at the supplier and its suppliers.

907: AQAP 2131 (final inspection)
The supplier/manufacturer undertakes to execute quality assurance measures in accordance with the provisions of the AQAP-2131 (NATO quality assurance requirements for final inspection) delivery item.
RHEINMETALL representatives have the right to convince themselves of the effectiveness of the quality management system at the supplier and his subcontractors.
**Quality assurance conditions**
Longtexts to QAC number-codes

**908: AQAP 2210 (software development)**
If relevant, the requirements of AQAP 2210 for software development must be met. The respective relevance, which requirements apply in the course of the order, can be found in the corresponding order to the supplier. A quality management plan based on the requirements of AQAP 2105 must be drawn up.

We ask for the certificate to be handed over or, if not available, for a description of the QM system.
RHEINMETALL representatives and the main client or his representative (e.g. quality inspection service) have the right to convince themselves of the effectiveness of the quality management system and the contractual performance of the services during ongoing production at the supplier and its suppliers.