



Saudi Standards, Metrology and Quality Organization
SASO

Technical Regulation for Tanks – Part 1:
Petroleum Products Transportation Tanks

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Version 1

Note:

**Only the Arabic version of this Regulation is authentic in law and is
applicable where there are differences with this translation**

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Preamble

In line with the accession of the Kingdom of Saudi Arabia (KSA) to the World Trade Organization (WTO), as per the Decree No. 244 of the Council of Ministers, dated 21/09/1426 A.H., concerning the approval of documentation on the Kingdom's accession to the WTO, and the requirements by which the KSA shall adapt its relevant systems with the principles of WTO agreements, particularly, the Technical Barriers to Trade (TBT), which stipulates that no unnecessary technical requirements shall impede the flow of commodities among the member states, and that technical requirements and methods of conformity assessment shall not discriminate between products on the basis of origin, through the issuance of Technical Regulations that include the essential requirements and standardized business procedures.

In accordance with Article 3 (Clause-1), Statute of Saudi Standards, Metrology and Quality Organization, issued in accordance with the Council of Ministers Decree No. 216, dated 17/06/1431 A.H. (31/05/2010 A.D.), stipulating that: **"SASO shall issue Saudi standards, quality systems and guidelines and conformity assessment, compatible with international standards and guidelines, that meet the requirements of the World Trade Organization (WTO) Agreement, in addition to their compliance with Islamic Sharia and serving the interests of Saudi Arabia";**

In accordance with Article 4 (Clause-2), Statue of Saudi Standards, Metrology and Quality Organization, issued in accordance with the Council of Ministers Decree No. 216, dated 17/06/1431 A.H. (31/05/2010 A.D.), stipulating that: **"SASO shall issue regulations for conformity assessment procedures of commodities, products, and services according to approved standards";**

In accordance with Article 4 (Clause-14), Statue of Saudi Standards, Metrology and Quality Organization, issued in accordance with the Council of Ministers Decree No. 216, dated 17/06/1431 A.H. (31/05/2010 A.D.), stipulating that: **"SASO shall review the laws and control regulations related to SASO's work fields, and develop them, and propose amendments thereto in line with quality and safety requirements, and refer them to competent bodies in order to review and issue them, in accordance with applicable procedures";**

In accordance with Article 6 (Clause-1), Statue of Saudi Standards, Metrology and Quality Organization, issued in accordance with the Council of Ministers Decree No. 216, dated 17/06/1431 A.H. (31/05/2010 A.D.), stipulating that: **"Subject to Article 4 of this Statute, SASO shall be the authority in charge of matters related to standards, conformity assessment procedures, granting the quality mark, metrology and calibration. All public and private sectors shall be adhered to the Saudi standards in all purchases".**

Whereas the standards of the products included in a regulation shall be a basis for the conformity of such products with the essential safety requirements included in the specified regulation.

Therefore, SASO has developed this Technical Regulation.

Note: This preamble and all the annexes of this regulation shall form an integral part thereof.

Article (1): Terms and Definitions

1/1 When applying the articles of this regulation, terms and expressions hereunder — shall have the meanings indicated in front thereof, unless the context otherwise requires:

KSA: The Kingdom of Saudi Arabia.

The Board: SASO's Board of Directors.

SASO: Saudi Standards, Metrology and Quality Organization

Regulatory Authorities: government body/bodies with regulatory tasks according to their specializations, which are responsible for the implementation and enforcement of technical regulations, whether in customs, markets, or manufactories.

Competent Bodies: General Department of Traffic - the licensing body for the traffic of trailers and semi-trailers on public roads, and the Ministry of Transport - the licensing body to practice the transport activity.

Market Surveillance Authorities: government body/ bodies responsible for carrying out market surveillance.

Technical Regulation: A document approved by the Board that provides the characteristics of the products, the associated processes and production methods, including the applicable administrative provisions; with which compliance is mandatory. The technical regulation can also include or pay attention to terms, definitions, packaging, and requirements of markings or labelling on products, services, processes or production methods.

Standard: A document approved by the Board that provides, for regular and recurring use, non-mandatory rules, instructions, and specifications of products or processes and production methods. It may include or pay attention to terms, definitions, packaging, and requirements of markings or labelling products, services, processes or production methods.



Essential Requirements: The special requirements of the products; that may affect the safety, health, and the environment; that must be adhered to.

Hazard(s): A potential source of harm.

Risk (s): A potential risk causing damage; associated with the severity of damage.

Supplier:

- A product manufacturer, in case that he is resident in the Kingdom, or the person identified as the manufacturer of the product, through linking the product to their name, or to a relevant commercial description, or any person who provides a product replacement.
- An agent, if the manufacturer is outside KSA.
- Importer.
- Any person in the supply chain, whose activities may affect the product characteristics.

Conformity Assessment Procedures: A document approved by the Board, which describes the procedures used directly, or indirectly, for the conformity assessment.

Notified (Approved) Bodies: Conformity Assessment Bodies "Third Party", approved by SASO in accordance with the Regulation of Conformity Assessment Bodies Acceptance.

Certificate of Conformity: A certificate issued by SASO or a notified body, which ensures the conformity of a product, or any batch thereof, with the requirements of relevant standards.

Supplier Declaration of Conformity:

A declaration by the supplier by which it declares that a product conforms to the requirements herein and applicable legislation, without the mandatory intervention of a third party neither in the design stage, nor in the production stage of the manufacturing process. A declaration may depend on testing the product in accordance with the relevant legislation.

Saudi Quality Mark: A mark granted by SASO, which declares that the supplier has established an effective management system, which ensures that the products they supply are produced in accordance with the applicable regulations, granting procedures, and the relevant Saudi standards.

Market Surveillance: Activities and measures carried out by the market surveillance authorities to verify that products meet the requirements stipulated in

the relevant technical regulations, and to ensure that they do not pose a risk to health, safety, environment, or any other aspect related to the protection of the public interest.

Placing on Market: Launching a product for the first time in the Saudi market for which the manufacturer/supplier is responsible.

Making Available on the Market:

Any supply of the product for distribution, consumption or use in KSA, in the course of a commercial activity, in return for payment or free of charge

Withdrawal: Any procedure that aims to prevent placing a product in the market or in a supply chain.

Recall: Any procedure that aims to recall products made available for the end-user.

Tank: A fluid container that can be permanently mounted on the tank truck / trailer.

Tank Trailer: A tank mounted on a trailer, towed by a motor vehicle.

Truck: Motor vehicle towing the tank trailer.

Tank Truck: Motor vehicle equipped with tank trailer.

Petroleum Products: Fuel products (gasoline, diesel, kerosene).

Chassis Number: The distinctive number for the tanker Chassis (VIN).

Maximum Gross Weight: The weight of the tank truck including the contents of the fully loaded cargo tank.

Article (2) Scope

This Regulation aims to lay out the requirements of the design, manufacturing, inspection and testing of petroleum products transport tanker in accordance with the standards provided in Annex (1) of this Regulation.

Article (3) Objectives

This Regulation aims to identify the essential requirements for petroleum products transport tankers included in the scope of this Regulation, and to determine the conformity assessment procedures with which the suppliers shall comply with, in order to ensure conformity of the product, and to preserve health and safety of road users.

Article (4) Supplier Obligations

For manufacturing or importing petroleum products transport tankers, the supplier shall adhere to the following requirements:

4/1 General Requirements

The supplier shall adhere to the following requirements:

- A)** The manufactory shall have the necessary licenses from the competent authorities to practice the activity.
- B)** The manufactory shall have an effective quality management system. A manufactory certified with the ISO 9001 quality management system shall be deemed to meet the requirements of this clause.
- C)** The renewal of the licenses for the activity of these manufactories shall be related to the extent to which the manufacturer complies with the applicable administrative and the provisions of this technical regulation.
- D)** The manufactory shall have the technical and administrative competencies capable of manufacturing tanks in accordance with the requirements of the relevant technical regulations and standards.
- E)** The tank manufacturer shall be registered with SASO.
- F)** Compliance with the technical and administrative conditions mentioned in the relevant regulations and standards (Technical Regulation for Trailers and Semi-trailers, Technical Regulation for Truck Barriers ...).
- G)** Issuance of a Certificate of Conformity in accordance with the requirements of this Technical Regulation and the standards set forth in Annex (1).

4/2 Technical Requirements:

The supplier shall comply with the technical requirements stated in the relevant standards.

4/3 Administrative Requirements:

- A)** Petroleum products transport tankers shall be subject to the applicable vehicle traffic licensing system in KSA after meeting the requirements of this Technical Regulation.



- B) Issuance of a Certificate of Conformity in accordance with the requirements of this Technical Regulation and the standards set out in Annex (1).
- C) Petroleum products transport tankers shall be subject to a pre-service inspection, and a periodic annual inspection after being operative, by one of the Notified Bodies approved by SASO, in accordance with international standards and practices.

Article (5) Labelling

Labels on the tank shall include the following requirements:

- 5/1 Name and commercial record of the supplier written in Arabic.
- 5/2 Chassis number of the trailer.
- 5/3 Data shall be written on the right and left sides of the tank.
- 5/4 Data shall be written in a location where it is clearly visible and easily accessible.
- 5/5 Data shall be written by engraving (stamping- inscription), marking or any method that is difficult to obliterate or destroy.
- 5/6 Name and logo of the Notified Body, date of inspection, date of expiry of the inspection certificate and the number of the trailer chassis.

Article (6) Conformity Assessment Procedures

- 6/1 The supplier - responsible for the manufacturing of petroleum products transport tankers - shall obtain a Certificate of Conformity issued by a notified body by SASO, in accordance with the conformity assessment model (Type 1a), stipulated in ISO/IEC 17067 as clarified in Annex (2).
- 6/2 The Notified Body shall carry out the conformity assessment procedures according to the specified model, in order to ensure fulfillment of the requirements of this Regulation and relevant Saudi standards set out in Annex (1).
- 6/3 The notified inspection body shall place the inspection label on the tank, indicating the name and logo of the notified body, date of the periodic inspection and the trailer chassis number, provided that the label shall be provided with a QR Code to verify the validity of its data.
- 6/4 The supplier shall cooperate with the Regulatory Authorities and conformity assessment bodies, by providing the technical file documentation, Certificates of Conformity, inspection reports, and any other documents proving the conformity of the product with the requirements of this Regulation, when required.

- 6/5 Manufactories bearing the Saudi Quality Mark, or its equivalent, shall be deemed to be complying with the requirements stipulated herein.

Article (7) Responsibilities of Regulatory Authorities and Competent Bodies :

Regulatory Authorities, as a part of their competences and powers, shall carry out the following:

- 7/1 Regulatory Authorities shall verify that the tanks fulfill the requirements of the specified conformity assessment procedures, and the technical documents accompanied with the consignment at customs ports and manufactories.
- 7/2 Regulatory Authorities have the right to randomly take samples of the tanks and refer such samples to the competent laboratories to ascertain the extent of the conformity of such samples with the requirements set out herein.
- 7/3 Regulatory Authorities have the right to charge suppliers (manufacturers/importers) with the costs of tests and associated fees.
- 7/4 In case of a non-conformity of the product, Regulatory Authorities shall withdraw such products from warehouses, and take necessary legal measures.
- 7/5 The competent authority shall grant and renew the licenses for the transport of tank trucks, included in the scope of this Regulation, after ensuring their compliance with the requirements of this Technical Regulation, and renewing the licenses after ensuring their safety through the periodical inspection process in accordance with applicable laws and procedures in KSA.
- 7/6 The competent authority shall verify the registration documents of tank trucks and ensure their compliance with the Regulation, in accordance with the applicable laws and procedures in KSA.
- 7/7 In case of non-conformity of the tank – displayed or stored – with the requirements of this Technical Regulation, Market Surveillance Authorities shall take all administrative actions including withdrawal and recall of such products. Procedures and penalties – stipulated in Article (8) – shall be applied after taking the necessary actions.

Article (8) Violations and Penalties

- 8/1 It is prohibited to manufacture, import, launch, or even advertise the tank products non-conforming with the requirements of the articles stipulated in herein.
- 8/2 Tanks, failing to meet the requirements of this Regulation shall be a sufficient reason for Market Surveillance Authorities and Regulatory Authorities to consider the product as non-conforming, which may pose a risk to the health and safety of consumers and to the environment, including, but not limited to:

- A) Non-fixing or improper fixing of conformity labels, Saudi Quality Mark, or its equivalent.
 - B) Failure to issue or incorrect issuance of the Certificate of Conformity or the Supplier Declaration of Conformity, or if these two documents contained incomplete or incorrect information.
 - C) Unavailability or incompleteness of the technical documentation upon request.
 - D) Unavailability or incompleteness of product data/labels, including chassis number in accordance with the provisions herein.
- 8/3 In case of a violation of the provisions hereof, Regulatory Authorities and Market Surveillance Authorities shall take all necessary actions to eliminate such violations, and their effects from the market, as the case may be To this end, they may:
- A) Mandate the violating party – that is responsible for placing and offering of the tanks – to withdraw the product from the warehouses or markets in order to remedy such violations, if possible, or export or destroy the product (according to the nature of the product) within the period specified by those parties.
 - B) Withdraw, restrain or destroy the products, or take any other necessary action to recall such products from the markets. As the case may be, Market surveillance Authorities may announce the withdrawal of the product from the markets, and the violating party shall bear all associated expenses.
- 8/4 In case of non-conformity of the products, SASO shall take the necessary actions concerning products non-conforming with the requirements herein, including the cancellation of the relevant Certificate of conformity, while taking the necessary measures with the notified body, which issued the certificate.
- 8/5 Without prejudice to any other law, a party that violates any of the provisions hereof shall be subject to the penalties stipulated in applicable Anti-Commercial Fraud Law or any other superseding law.

Article (9) General Provisions

- 9/1 Annexes, including the terms and definitions set forth in the standards, shall be deemed an integral part of the provisions hereof. SASO may amend any of these annexes, as required.
- 9/2 This Technical Regulation shall not impede the supplier to comply with all other systems/regulations applicable in the Kingdom of Saudi Arabia relating to the handling and use of tanks, as well as laws / regulations related to the environment, security, safety, traffic system and implementing by-laws thereof.

- 9/3 All tanker suppliers subject to the provisions herein shall provide to the inspectors of the regulatory authorities, market survey authorities, traffic departments and the Ministry of Transport all the facilities and information they require to carry out the tasks assigned thereto.
- 9/4 Tank trucks included in the scope of this Regulation, shall be subject to periodic inspection, in order to ensure the existence of the trailer chassis number and that it provides all road safety requirements, in accordance with the rules applicable in KSA.
- 9/5 Where new cases that cannot be treated under the provisions of this Technical Regulation originate, or where a dispute arises as a result of the application of those provisions, such matter shall be referred to the competent committee in SASO, in order to issue a proper resolution regarding the case or dispute, while taking the public interest into consideration.
- 9/6 SASO shall, exclusively, have the right to construe the articles herein. All beneficiaries of the application of this Technical Regulation shall adhere to the interpretations issued by SASO.

Article (10) Transitional Provisions

- 10/1 Supplier shall adhere to the provisions of this Technical Regulation within a period of no more than six months as of the date of publication in the Official Gazette.
- 10/2 Trading of infringing products shall be prohibited after two years as of the date of publication of this regulation in the Official Gazette.
- 10/3 This Technical Regulation, once adopted, shall supersede all the preceding regulations related to the scope of this regulation.

Article (11) Publication



This Technical Regulation shall be published in the Official Gazette.

Annex No. (1)
Standards of Petroleum Products Transport Tankers

S. N.	Product	Standard Description	Standard No.
1	Petroleum Tankers	Road Vehicles - Bottom Loading Tank trucks and trailers	SASO-2288
2		Transportation of Dangerous Substances by Road – Part 1: General Safety Requirements	SASO-1285
3		Transportation of Dangerous Substances by Road – Part 3 - Petroleum Liquids	SASO-1287
4		Road Vehicles - Bottom Loading Tank Truck – Inspection (examination) and periodic maintenance	SASO-2809
5		Motor Vehicles - Periodic technical inspection guide	SASO-1284
6		Motor Vehicles - Dimensions and Weights	SASO-469

Note / The list of standards provided in this Annex is subject to review. Suppliers shall use SASO's website to ensure that they are using the latest listed standards and versions thereof.

Annex No. (2)**Conformity Assessment Form (Type 1a) as per ISO/IEC 17067****Type Approval****1 Type Approval**

Type approval is defined as one of the conformity assessment procedures, under which a notified body reviews and verifies the technical design of the product and declares that the technical design meets the requirements of the relevant Saudi Technical Regulations.

Type approval may be conducted by one of the two following methods:

- A) Examination of a representative sample of the entire product, that represent the expected production (production model).
- B) Assessment of the conformity of the technical design of the product by auditing the relevant technical documentation and manuals (design model), and examining of a representative sample of the expected production for one part or more involving hazardous parts of the product (a combination of the production model and the design model).

2 Procedures of Type Approval**2/1 Submission of a Type Approval Request to a Notified Body**

The manufacturer shall submit a request for type approval to a notified body selected by the manufacturer, such request shall include:

- A) Name and address of the manufacturer;
- B) A written declaration not to submit the same request to any other Notified Body.
- C) Technical documentation facilitating the assessment of the conformity of the product to the requirements of Saudi technical regulations. Such documentation shall include adequate analysis and evaluation of risks.
- D) Technical documentation shall identify the requirements that apply to the product. Including, as required by the assessment, the design of the product, manufacturing and operation (use) of the product.
- E) Technical documentation shall include – at least - the following:
 - 1) A general description of the product.
 - 2) Design and manufacturing drawings, horizontal projections (diagrams), components, units, subdivisions, etc.

- 3) Description and explanations, referred to therein, necessary to understand the drawings, diagrams, and the operation (use) of the product.
- 4) A list of the Saudi standards or any other relevant technical specifications adopted by SASO, whether fully or partially applied, and a description of the adopted solutions to meet the essential requirements of the Saudi technical regulations in case of non-application of the aforementioned standards. In case of partial application of Saudi standards, the technical documentation shall clarify the applied clauses.
- 5) Report results (graph calculations) of the design, operation control, conducted tests, etc.
- 6) Test reports.
- 7) Representative samples of the planned production. The notified body may request additional samples, if necessary.
- 8) Evidences (proofs) supporting the appropriateness of the technical solutions applied in the design. Such evidence shall refer to all documents, particularly in case of non-application of the Saudi standards and/or the aforementioned appropriate technical specification. Supporting evidences – as applicable - shall include results of test conducted in the suitable laboratory in the manufacturer or any other laboratory under the responsibility of manufacturer.

2/2 Tasks of the Notified Body

2/2/1 With regard to the product, the notified body shall:

Study the technical documentation and supporting evidence for the purpose of assessment of the technical design of the product.

2/2/2 With regard to the samples, the notified body shall:

- 1) Ensure that the manufacturing of samples is conformant to the technical documentation, in addition to identifying the elements designed in accordance with the Saudi standards, and the elements designed in accordance with other standards.
- 2) Carry out appropriate examinations and tests, or outsource them in order to verify that the technical solutions adopted by the manufacturer meet the essential requirements specified in the standards, in case of non-application of the relevant standards.



- 3) Carry out appropriate tests or outsource them, in order to verify that – in case of non-application of Saudi standards and/or other appropriate standards - the technical solutions adopted by the manufacturer meet the essential requirements of the Saudi technical regulations.
- 4) Be in agreement with the manufacturer on the venue where tests shall be conducted.

2/2/3 As for decisions made by the Notified Body:

- 1) The notified body shall issue an assessment report of the procedures carried out and their outputs. The notified body shall not publish, fully or partially, the report without the approval of the manufacturer.
- 2) In case the type meets the requirements of the Saudi technical regulations relevant to the concerned product, the Notified Body shall issue a Type Approval Certificate for the manufacturer. Such certificate shall include the name and address of the manufacturer, test results, the validity conditions thereof, if any, and all information required for identification of the certified type. The certificate may also include attachments.
- 3) The certificate, along with its attachments, shall include all necessary information required to assess the conformity of manufactured products, according to the tested type and for monitoring during operation.
- 4) In case the type is non-conforming to the requirements of the Saudi Technical Regulations applicable to the product, the Notified Body shall not issue the Type Approval Certificate and shall notify the applicant of its decision, stating detailed justifications for such decision.
- 5) The Notified Body shall follow all recognized technological developments. Whenever such developments indicate that the possibility that the certified type may no longer comply with the requirements of the Saudi Technical Regulations, the Notified Body shall determine to what extent further tests are required, and it shall inform the manufacturer accordingly.
- 6) The manufacturer shall inform the Notified Body, holding the technical documentation related to the Type Approval Certificate, of all modifications of the certified type, which may affect the conformity of the product to the requirements of the Saudi Technical Regulations, or to the terms of validity of the Type Approval Certificate. As such modifications require additional approval other than the primary Type Approval Certificate.
- 7) Notified bodies shall inform SASO of the Type Approval Certificates and any additions issued or withdrawn, and shall periodically, or upon request,

provide a list of the Type Approval Certificates and any additions that has been rejected, suspended, or restricted in any way.

- 8) Each Notified Body shall inform the other accredited Notified Bodies of the Type Approval Certificates and any additions that has been rejected, suspended, or restricted in any way. In addition, they shall be informed, upon request, about Type Approval Certificates or any additions released.
- 9) Upon request, SASO and other Notified Bodies can obtain copies of the Type Approval Certificates and/or additions thereto. SASO may obtain copies of technical documentation and testing results carried out by the Notified Body, upon request. The Notified Body shall keep a copy of the Type Approval Certificate, its annexes and additions, in addition to the technical documentation (including documents attached by the manufacturer) up until the certificate's expiration date.
- 10) The manufacturer shall keep a copy of the Type Approval Certificate, its annexes and additions thereto, in addition to the technical documentation. Furthermore, the manufacturer shall make all documents available to Regulatory Authorities and Market Surveillance Authorities for ten (10) years after placement of the product in the market.
- 11) The supplier may submit the request mentioned in Clause (1/1/2), and carry out the aforementioned tasks on behalf of the manufacturer, on the condition of the manufacturer's consent.



Annex No. (3)**Supplier Declaration of Conformity**

This form shall be filled in on company's official papers

1) Supplier Details:

- Name: -----
- Address: -----

- Contact person: -----
- E-mail: -----
- Tel.: -----
- Fax:-----

2) Product Details:

- Trademark: -----
- Model: -----
- Description: -----
- Type (as per Standards): -----
- Reference Standards / Technical Specifications: -----

We declare that the above mentioned product is in conformity to the Saudi Technical Regulation () and the Saudi Standards attached thereto.

Person in Charge: -----

Company Name: -----

Signature:----- Date: ---/---/-----