

**SAUDI STANDARDS, METROLOGY AND
QUALITY ORGANIZATION**

Project No. 33778/2025

CAR WASH SHAMPOO

ICS 71.100.40

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Foreword

The technical team (Detergents) of Saudi Standards, Metrology and Quality Organization (SASO) has prepared the Saudi Standard No. SASO:2025 "*Car Wash Shampoo*" based on relevant Standards and references.

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CAR WASH SHAMPOO

1. SCOPE AND FIELD OF APPLICATION

This Standard defines the requirements for liquid car wash shampoos designed for cleaning the exterior of automobiles and other vehicles, whether manually or through automated systems.

It applies to concentrated liquid products that require dilution with water prior to use and specifies essential quality, performance, safety, and environmental characteristics.

This standard excludes pre-wash treatments, detailing sprays, waxes, and other car care products not classified as liquid wash shampoos.

2. COMPLEMENTARY REFERENCES

- 2.1 SASO ISO 4316 "Surface active agents -- Determination of pH of aqueous solutions -- Potentiometric method".
- 2.2 SASO 494 Determination of the Biodegradability of Anionic Surfactants
- 2.3 SASO GSO 152 Synthetic Detergents- Method of test for Household Synthetic Detergents Powder

3. DEFINITIONS

3.1 Liquid Car Wash Shampoo:

A liquid formulation specifically designed for cleaning the exterior surfaces of vehicles, intended to be diluted with water before use.

3.2 Concentrate:

The undiluted form of the liquid car wash shampoo as supplied by the manufacturer.

3.3 Diluted Shampoo:

The working solution of the car wash shampoo prepared by mixing the concentrate with water according to the manufacturer's instructions.

4. REQUIREMENTS

Product shall fulfill the following:

- 4.1 The material shall be homogeneous liquid, free from visible undissolved particles, Free from Objectionable Odor and it may be suitably colored.
- 4.2 The material shall contain surfactants, preservative, and other desirable additives.
- 4.3 The product shall not cause deterioration of the exterior of automobiles or other harmful effects than water used in the same conditions. When used as directed by the manufacturer.

- 4.4 The product shall be miscible in water in all proportions without any visible separation or precipitation
- 4.5 The product shall be stable, and not deteriorate in storage when kept in its original unopened container at ambient temperature for a period of at least one year from the date of manufacture.
- 4.6 PH of diluted liquid, at the manufacturer's recommended dilution shall be within the range of 6.5 to 9.0 at 25°C.
- 4.7 The material shall be viscous or Non-Viscous.
- 4.8 The Ultimate biodegradability of surfactant with cleaning properties shall not be less than 60% within 28 days
- 4.9 The diluted shampoo shall effectively remove typical automotive soiling (e.g., dust, sand, road grime, insect residues) from painted vehicle surfaces
- 4.10 The diluted shampoo shall rinse freely from the vehicle surface with potable water without leaving any visible streaks or spots under typical rinsing conditions, tested as per item 2.3 SASO GSO 152
- 4.11 The liquid car wash shampoo shall be non-flammable

5. SAMPLING

- 5.1 Samples shall be taken in an environment not exposed to damp air and dust.
- 5.2 The instrument used for sampling must be clean and dry.
- 5.3 The samples shall be kept in dry and clean suitable containers.
- 5.4 The container shall be equipped with a tightly closed cover, which is permeable to air and shall be labelled with the information.
- 5.5 Samples shall be kept in closed place and shall not be exposed to the light at room temperature.
- 5.6 Each consignment shall be divided into similar groups having the same size, batch number and date of production.
- 5.7 From each group, a number of units shall be drawn at random according to Table (1).

Group size	No. of drawn unit
3 – 50	3
51 – 200	4
201 – 400	5
401 – 650	6
over 650	7

6. PACKING

The product shall be packed in suitable tightly closed containers that do not affect or be affected by the product. It shall be adequately sealed to prevent leakage.

7. TEST METHODS

The following tests shall be carried:

- 7.1 Visual inspection.
- 7.2 Determination of the PH value
- 7.3 Determination of rinsing properties
- 7.4 Biodegradability of surfactant

8. MARKING

Each container and large container of the product shall be legibly and indelibly marked with the following information in Arabic or both Arabic and English.

- 8.1 Name of the product.
- 8.2 Name and address of manufacturer and/or his trademark.
- 8.3 Ingredients
- 8.4 Net weight or volume of the product.
- 8.5 Batch number, production and Expiry date
- 8.6 Country of origin.
- 8.7 Instructions of use including recommended dilution ratio
- 8.8 Storage and Handling
- 8.9 Warning phrase shall be marked on the bottle:
 - 8.9.1 Keep out of reach of children.
 - 8.9.2 Avoid contact with eyes and prolonged skin contact.
 - 8.9.3 In case of accidental contact with eyes and skin, wash off immediately with water and seek medical advice.
 - 8.9.4 If swallowed, seek medical immediately.
 - 8.9.5 Do not use the empty bottle
- 8.10 The word 'CAUTION' shall be in a colour that contrasts with the surrounding for easy visibility and shall be followed with the statement, 'READ LABEL BEFORE USE'.

Safety warnings and precautions in Arabic and English, including first aid measures.

store in a cool, dry place away from direct sunlight, ideally between 15°C and 35°C).

Instructions for proper disposal of the product and its packaging in accordance with local regulations in Saudi Arabia.

REFERENCES

- National manufacturers

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