

Reference Guide:

Eurasian Economic Union Technical Regulations and Customs Union Technical Regulations for the Import of LPG and Bitumen into the Republic of Armenia

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Introduction

In addition to the general rules for the import of gasoline and diesel fuel (TR CU 013/2011), the trade in liquefied petroleum gas (LPG) and road bitumen within the territory of Armenia is strictly regulated by the relevant technical regulations of the Eurasian Economic Union. This guide describes the current safety requirements, physical and chemical properties, and certification procedures for these two product categories.

Section 1: Liquefied Petroleum Gas (LPG)

The import and sale of liquefied petroleum gas (LPG) used as motor or domestic fuel are regulated by **EAEU TR 036/2016 “Requirements for Liquefied Petroleum Gases for Use as Fuel.”**

- **Effective Date:** January 1, 2018
- **Form of conformity assessment:** Declaration of Conformity (Declaration).

Key technical and economic indicators for LPG

Gas fuel is subject to strict requirements regarding pressure and sulfur content:

Parameter	Unit	Standard per EAEU Technical Regulation 036/2016
Saturated vapor pressure (gauge) at +45 °C	MPa	not more than 1.6
Saturated vapor pressure (gauge) at -20 °C	MPa	not less than 0.07
Mass fraction of hydrogen sulfide and mercaptan sulfur	%	not more than 0.010–0.013 <i>(Starting in 2030, the limit will be tightened to 0.0050% or 50 mg/kg)</i>
Including hydrogen sulfide	%	not more than 0.003
Free water and alkali content	—	None

Odorization (Odor): If the mass fraction of mercaptan sulfur in liquefied gas is less than 0.002% or the odor intensity is rated at less than 3 points, LPG **must be odorized with** special additives to ensure safety (timely detection of leaks).

Section 2: Petroleum Road Bitumen

Petroleum bitumens used in the construction and repair of motorways are subject to **TR CU 014/2011 “Safety of Motorways.”** This regulation establishes requirements for materials to ensure the durability and safety of the road surface.

- **Scope of regulation:** Viscous petroleum road bitumen, liquid bitumen, bituminous road mastics, and sealants.
- **Form of conformity assessment:** Declaration of Conformity (in accordance with Annex 1 of TR CU 014/2011). *Please note: Bitumen is subject to declaration, not mandatory certification.*

Key physical and mechanical properties of bitumen (using viscous bitumen as an example)

Bitumen’s compliance with regulations is verified against relevant standards (GOST 33133-2014 and equivalents) in accredited laboratories:

Parameter (Characteristic)	Test method	Safety and quality requirements
Needle penetration	at 25 °C and 0 °C	Determines the bitumen grade (e.g., BND 60/90, where the numbers indicate the permissible penetration range). Strictly standardized.
Softening point	Ring-and-Ball Method	Ensures the pavement’s resistance to rutting during the summer (heat resistance).
Fracture temperature	According to Fraas	Determines the bitumen’s frost resistance (prevention of cracking in winter).
Flash point	In an open cup	Fire safety parameter during transportation and heating (usually not lower than +230 °C).
Change in properties after aging	RTFOT method (RTFOT aging)	Assessment of mass loss and changes in softening temperature after simulating the asphalt mixture preparation process.

Required documentation for importing LPG and bitumen

To successfully clear customs in Armenia for a shipment of LPG and bitumen, the following must be provided:

1. **Declaration of Conformity (EAC)**
 - For LPG — for compliance with EAEU Technical Regulation 036/2016.
 - For bitumen—for compliance with TR CU 014/2011.

- The document must be registered in the EAEU Unified Register and valid at the time of import.
- 2. **Quality certificate (from the manufacturer)**
 - Required for each specific batch.
 - Must contain standard values and **actual test results** for all items of the relevant regulations.
- 3. **EAC marking**
 - The presence of the unified product circulation mark (EAC) in the accompanying documentation and (if applicable) on the container/packaging.