

Tank car for transportation of LPG, model 15-9541-01 (articulated)



Description

The 15-9541-01 tank car model is designed for the transportation of liquefied petroleum gas (LPG) along main railroads in the 1520 mm gauge area.

The tank car, unique in its design, consists of two tanks connected by a slack-free coupler. The car length over coupler pulling faces is 24,020 mm with each section being 12,020 mm long. The design of the articulated tank car ensures a smooth passage of the articulated car alone as well connected to standard cars along straight and curved sections of the track, including those with small radii, in line with regulatory standards. As the location of the tank fittings matches that of a standard 12-metre car, UWC's articulated tank cars can be easily serviced at standard terminals.

An increased overhaul mileage represents a significant competitive gain, reducing overall costs in the car's life cycle.

Designed by: All-Union Research and Development Centre for Transportation Technology, LLC.

Producer: TikhvinChemMash, JSC.

Specifications

Technical specification		Model 15-9541-01
Payload capacity, t:		
car		90
section		45
Tank space, m ³		163.1
Length over coupler pulling faces, mm		24,040
Tare weight, t		
minimal		56.3
maximal		59.5
Base, mm:		
car		17,700
section		8,850
Height above rail top, mm		5,144
Width, mm		3,248 ⁺¹⁹ ₋₃₃
Gabarit as per GOST 9238-2013		1-T
Bogie model		18-9855
Estimated static load from the wheel set on rails, kN (tf)		245 (25)
Regulatory overhaul period, thousand km (years)		500 (8)*
Service life, years		40

Cargoes

Cargo	ETSNG Code
Natural gas liquids	226290
Propane-butane fraction	226267
Propane	226125
Butane or butane mixtures	226040
Isobutane or isobutane mixtures	226093
Liquefied hydrocarbon gases with no letter designation in the Alphabet-Based Classification	226074
Other cargoes	O/R

*According to the results of controlled operation, the period can be extended.