

Tank car for transportation of sulfuric acid, model 15-9545



Description

A new generation tank car possesses improved technical and economic characteristics comparing to conventional analogues.

The tank car, which boiler space amounts to 44 m³, is equipped with the undercarriage with 25 tf axle load. The tank car payload of 77 t allows increasing its loading capacity by more than 10%. The tank car features the boiler with a “broken” axis ensuring maximum draining of the tank. An increased run time between repairs is a significant competitive advantage of the freight car, model 15-9545, which allows cutting down the cost of the freight car life cycle by almost 3 times.

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





Specifications

| Technical specification | Model 15-9545 |
|--|---------------|
| Payload capacity, t | 77 |
| Boiler space, m ³ | 44 |
| Boiler internal dimensions, mm | 2,400 |
| Length over coupler pulling faces, mm | 12,020 |
| Tare weight, t | 22.7 |
| Gabarit as per GOST 9238-2013 | 02-BM |
| Bogie model | 18-9855 |
| Estimated static load from the wheel set on rails, kN (tf) | 245.25 (25) |
| Service life, years | 18 |
| Regulatory overhaul period, up to mln km (years) | 1 (8) |

Cargoes

| Cargo | OOH code cargo |
|---------------------------------|----------------|
| Sulfuric acid of 1 and 2 grades | 1830 |
| Regenerated sulfuric acid | 1906 |
| Other cargoes | O/R |