

Hopper car for transportation of mineral fertilizers, model 19-9549-03



Description

New generation hopper-car of model 19-9549-03 is equipped with the bogie with an axle load of 25 tf.

The rail car body volume increased to 120 m³ ensures a loading capacity of up to 76.5 t (+6 t when compared to counterparts) which makes it possible to carry a wide range of mineral fertilizers. The use of a special two-component coating effectively protects the body against the aggressive cargo exposure. With the car body space increased it becomes practical to transport cargoes with high bulk density. This, together with extended between-repairs run time providing for a twofold decrease in the cost of the rail car life cycle, creates a significant competitive edge of the rail car of model 19-9549-03.

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



Specifications

Technical specification	Model 19-9549-03
Payload capacity, t	76
Body space, m ³	120
Tare weight, t	23.5
Length over coupler pulling faces, mm	14,720
Body internal dimensions (W), mm	3,220
Wheel base, mm	10,500
Height from rail top level, mm	4,840
Number of loading/unloading hatches, pcs (1)	5/6
Number of loading/unloading hatches, pcs (2)	4/6
Unloading mechanism	Lever-screw mechanism
Gabarit as per GOST	1-T
Bogie model	18-9855
Estimated static load from the wheel set on rails, kN (tf)	245.25 (25)
Service life, years	32
Regulatory overhaul period, up to mln km (years)	1 (8)
Cargoes	

Cargo	OOH code cargo
Potassium chloride (potassium chloride)	43403
Apatite concentrate (apatite)	43103
Urea (urea artificial)	43304
Concentrate mineral "sylvite"	43108
Ammophos	43602
Ammonium nitrate	43307
Fertilizers chemical and mineral sorts, not specified in the alphabet	43619
Sodium carbonate (soda ash)	48215
Clay	15106
Ammonium sulfate	43302
Ammophos	43604
Concentrate nephele	24213
NPK	43612
Quicklime	23311
Other cargoes	O/R