

Hopper car for transportation of cement, model 19-9550



Description

A new generation hopper car model 19-9550 is equipped with a bogies with an axial load of 25 tf.

In comparison with existing counterparts, the payload capacity in the freight car of model 19-9550 has been increased up to 79 t. The design of the freight car allows to effectively transport cement, alumina, apatite concentrate, sand, gypsum, lime and other bulk powder and granulated freight loaded via the top hatches and discharged by means of gravitational unloading. To prevent deformation of the body and the formation of a vacuum inside it during unloading, the freight car is equipped with an anti-vacuum valve.

Increased terms of between-repairs run, which provide for the reduction of the freight car life cycle costs by almost 3 times, are a considerable competitive advantage of the freight car of model 19-9550.

Hopper car for transportation of cement is completely compatible with the existing infrastructure and can be operated at all types of loading-unloading terminals.

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



Specifications

Technical specification	Model 19-9550
Payload capacity, τ	79
Body space, m ³	69.7
Tare weight, τ	20.5±0.5
Length over coupler pulling faces, mm	12,020±25
Height from rail top level, mm	4,444
Number of loading/unloading hatches, pcs	4/4
Size of the loading hatch into the light, mm	610
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)
Service life, years	32
Regulatory overhaul period, up to mln km (years)	1 (8)

Cargoes

Cargo	OOH code cargo
Portland cement	28104
Cement is not named in the alphabet	28114
Alumina	15106
Apatite concentrate (apatite)	43103
Quartz sand, except construction	24146
Anhydrite (feldspar feldspar and light) in lumps and powder	23302
Sodium carbonate (sodium carbonate, soda ash)	48215
Sand molding	24147
Cements for tamping	28113
Limestone powder, not named in the alphabet	23306
Dolomite flour (ground dolomite)	24159
Granulated slag	27100
Technology chalk	23316
Slag m-200, m-300, m-400	28115
Other cargoes	O/R