

## Hopper car for transportation of cement, model 19-9550



### Description

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.

For the prevention of vacuum formation in the body and the body deformation during unloading process the freight car is equipped with the 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.



### Specifications

Technical specification	Model 19-9550
Payload capacity, τ	79
Body space, m <sup>3</sup>	69.7
Tare weight, τ	20.5
Length over coupler pulling faces, mm	12,020
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 (25)
Service life, years	32
Regulatory overhaul period, up to mln km (years)	1 (8)

#### Cargoes

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