TIKHVIN
FREIGHT CAR BUILDING
PLANT
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PLATFORM CAR FOR THE HIGH–CAPACITY CONTAINERS

The platform is designed for transportation of bulk containers along the 1520 mm gauge mainline railways.

Technical specifications	Car model 13–9834	Car model 13–9834–01
Payload capacity, t	70,5	70,5
Tare weight, maximum t	23,5	23,5
Service, yr	32	32
Maximum estimated static load from the wheel set on rails, kN (tf)	230,5 (23,5)	230,5 (23,5)
Length over coupler pulling faces, mm	25620	25620
Wheel base, mm	19000	19000
Types of containers transported as per GOST R 51876–2008 Type 1AAA, 1AA, 1A Type 1BBB, 1BB, 1B Type 1CCC, 1CC, 1C	 1 или 2 2 1, 2, 3*, 4*	 1 или 2 2 1, 2, 3*, 4*
Overall dimensions (gabarit) as per GOST 9238–83 –body –bogie	 1–T 02–BM	 1–T 02–BM
Bogie model	18–100	18–9810
Run to the first roundhouse service, thousand (s) km (years)	210	500 (6)

DESIGN FEATURES

1 Car frame

- The applied structural design allows to decrease the car weight and increase its payload capacity providing the required structural strength and reliability.

2 Coupler

The coupler is equipped with a modern shock absorbing device of T-1 class, which decreases the level of axial forces applied to the car, and an improved uncoupling arrangement, which prevents falling of the coupler on a track when it breaks and the situation is abnormal.

3 Brake system

The independent bogie braking system provides more advantageous braking conditions, possesses higher efficiency and reliability in comparison with the traditional braking system.

The braking system is fitted with advanced braking apparatuses which overhaul life is at least four years, fittings for threadless joints of brake lines, wear-resistant composite press material on the base of formaldehyde resins providing the run life at least 1 mln km.

4 Undercarriage

Application of bogies of model 18-9810 (Barber S-2-R) improves the car dynamical characteristics, promotes safety during its operation, increases an overhaul run and decreases generally the life cycle cost.