

# CLIMATE DECLARATION FOR RAILWAY WHEELS

Declared unit: 1 tonne of railway wheels

The climate declaration shows the emissions of greenhouse gases, expressed as CO<sub>2</sub>-equivalents. It is based on verified results from a lifecycle assessment (LCA) performed as basis for an EPD<sup>®</sup>, in accordance with ISO 14025 and EN 15804

## Information about the product

OMK's wheels are produced according to international standards and specially developed specifications.

## Information about the company

United Metallurgical Company (OMK) is a Russian manufacturer of high-quality steel products and integrated solutions designed to meet the most exacting consumer specifications in the fuel energy, transport, construction and other industries.

OMK consists of six large metallurgical plants in Vyksa (Nizhny Novgorod region), Almet'yevsk (Republic of Tatarstan), Chusovoy (Perm region), Chelyabinsk, Blagoveshchensk (Republic of Bashkortostan), and Belgorod, one of the largest train car repair companies in the country OMK Steel Way, a metal service and trading network.

OMK is a national and a CIS leader in railway wheel manufacture.

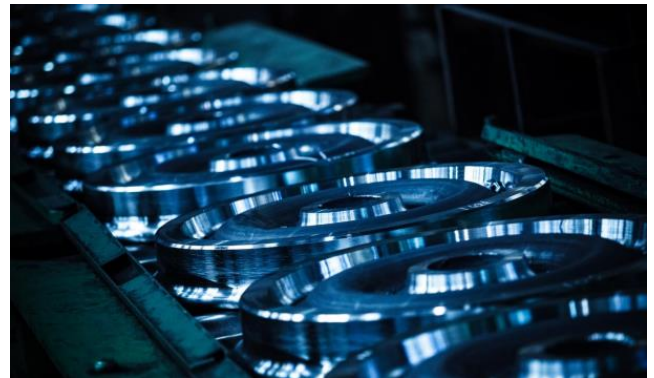
OMK's railway wheel manufacturing at Vyksa Steel Works utilizes a forged wheel rolling line with a capacity of 950,000 wheels a year. Vyksa Steel Works produces wheels with diameters range of 790 and 1,000 mm for freight and passenger cars, locomotives, and electric subway trains. OMK Railway products' manufacturing facility operates the country's only line to make hi-tech forged wheels for high-speed trains.

OMK Railway products is a leading partner in developing advanced innovative wheel designs. The introduction of such designs helps increase haulage efficiency, develop heavy freight and high-speed passenger traffic.

The principal customers are domestic. However, the business unit's export presence covers over 30 countries, including the US, Canada, Slovakia, Czechia, India, the Baltic nations, etc.

OMK's products for the railways meet international standards, including EN 13262, AAR M-107/M-208, IRS R-19/93, GOST 10791, and custom technical specifications.

Quality of OMK's wheels is evidenced by a certification for compliance with the requirements of Customs Union Technical Regulations (EAEU) 001 and 002, the TSI European technical regulations as well as those of the Association of American Railways (AAR). The facility and the manufacturing management systems are certified per the requirements of ISO/TS 22163 (IRIS), ISO 9001, ISO 14001, ISO 45001, ISO 50001 as well as per national railway standards.



EPD PROGRAMME: THE INTERNATIONAL EPD <sup>®</sup> SYSTEM		REGISTRATION NO: S-P-02304	VALIDITY: 2028-04-13
PCR 2014:10 (2.12)	UN CPC: 41253	PCR REVIEW CONDUCTED BY: THE TECHNICAL COMMITTEE OF THE INTERNATIONAL EPD SYSTEM	
INDEPENDENT VERIFICATION OF THE DECLARATION AND DATA, ACCORDING TO ISO 14025: EXTERNAL VERIFIER: INDEPENDENT VERIFIER DR HÜDAI KARA, METSIMS SUSTAINABILITY CONSULTING		ACCREDITED / APPROVED BY: THE INTERNATIONAL EPD SYSTEM	
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## Climate declaration

The table below shows the carbon footprint of the product, calculated as carbon dioxide equivalents (kg CO<sub>2</sub> eq.) for 1 tonne of railway wheels

	Results per 1 tonne of railway wheels			
	UPSTREAM	CORE	DOWNSTREAM	TOTAL
GWP-fossil	5.74E+02	4.39E+02	2.15E+01	1.03E+03
GWP-biogenic	4.84E+02	4.23E+02	2.13E+01	9.29E+02
GWP-luluc	8.96E+01	1.60E+01	2.15E-01	1.06E+02
GWP Total	1.34E-01	1.44E-02	7.39E-04	1.50E-01

## Other environmental impacts

For the full EPD, see  
[www.environdec.com](http://www.environdec.com) and  
[www.epdrussia.org](http://www.epdrussia.org).

## Contact information

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