



NATIONAL DECLARATION OF PERFORMANCE No. 230-B500B-01-2024

1. Name and trade name of the construction product: Ribbed bars B500B for concrete reinforcement

2. Type designation of the construction product: **Ribbed bars B500B**

3. Intended application(s) of the product:

B500B ribbed bars with a diameter of 8.0÷32.0 mm are designed for reinforcing reinforced concrete elements and structures designed according to the rules and requirements PN-EN 1992-1-1:2008 (Eurocode 2) for steel ductility class B with a characteristic yield strength of 500 MPa.

B500B ribbed bars with a diameter of $8.0 \div 16.0$ mm can be used for reinforcing reinforced concrete structures operating under dynamic and repeatedly changing loads.

4. Name and address of manufacturer's registered office and place of the product production:

PRIVATE JOINT STOCK COMPANY "KAMET-STEEL"

72 18B, 51925 DNIPROPIETROVSK OBLAST, KAMIANSKE, UKRAINE

5. Name and address of authorised representative, if any:

METINVEST POLSKA Sp. z o.o., 72 Warszawska 33, 40-010, Katowice, Poland

6. National system used for assessment and verification of constancy of performance characteristics: 1+

7. National technical specification:

7b. National technical assessment: ITB-KOT-2023/2525 Revision 1

Technical Assessment Body / National Technical Assessment Body:

INSTITUTE OF CONSTRUCTION EQUIPMENT, ul. Filtrowa 1, 00-611, WARSAW (INSTYTUT TECYNIKI BUDOWLANEI, ul. Filtrowa 1, 00-611, WARSZAWA)

Name of the accredited certification body, accreditation number, and certificate number:

INSTITUTE OF CONSTRUCTION EQUIPMENT, ul. Filtrowa 1, 00-611, WARSAW (INSTYTUT TECYNIKI BUDOWLANE), ul. Filtrowa 1, 00-611, WARSZAWA)

CERTIFICATION CENTER, 1 Filtrowa Street, 00-611, WARSAW (ZAKLAD CERTYFIKACJI, ul. Filtrowa 1, 00-611, WARSZAWA)

ACCREDITATION CERTIFICATE No. AC 020

8. Declared performance characteristics:

Main characteristics of the construction product for intended application(s)	Declared performance characteristics			Remarks
1 21 1 2 3 mag 2				
1. Chemical composition, %	Chemical element	According to		
		heat	finished rolled steel:	main
	С	≤ 0.22	≤ 0.24	
	Mn	≤ 1.60	≤ 1.70	
	Si	≤ 0.60	≤ 0.65	characteristics of
	S	≤ 0.050	≤ 0.055	the product
	Р	≤ 0.050	≤ 0.055	'
	Cu	≤ 0.80	≤ 0.85	
	N	≤ 0.012	≤ 0.014	
	Ceq	≤ 0.50	≤ 0.52	

1	2			3	
Dimensions, Rib Characteristics, Weight per Unit Length	Nominal diameter (ds), mm	Minimum ribbing ratio (f _R)		ass per unit gth (m), kg/m 4	
	8.0	0.045	0.	395 ± 4.0%	
	10.0 0,052 0.617 ± 4.0%		617 ± 4.0%		
	12.0	0.056	0.	888 ± 4.0%	main
100	14.0	0.056	1	.21 ± 4.0%	characteristics of
	16.0	0.056	1.58 ± 4.0%		the product
	20.0	0.056	2	2.47 ± 4.0%	
	25.0	0.056	3	3.85 ± 4.0%	
	28.0	0.056	4	.83 ± 4.0%	
	32.0	0.056	6	5.31 ± 4.0%	
Mechanical properties	Yield Strength Re, MPa			≥ 500	
	Ultimate tensile strength R _m , МПа			≥ 550	
	Ratio R _m /R _e			≥ 1.08	
	Total elongation at maximum force A _{gt} , %			≥ 5.0	
	Elongation, A ₅ , %			≥ 14.0	
	Angular deflection $ρεσιστανχε α = 20°$ after bending on an angle $α = 90°$ and aging, on a bar with a diameter of:			without cracks	main characteristics of the product
	- 5 d _s at d _s = 8 ÷ 16 mm - 8 d _s at d _s = 20 ÷ 25 mm - 10 d _s at d _s = 28 ÷ 32 mm				
	Fatigue life of bars with a diameter of 8.0 ÷ 16.0 mm, MPa, at σ _{max} = 300 MPa and amplitude of 160 MPa			≥ 2 -10 ⁶ cycles	

9. The performance characteristics of the above-mentioned product shall comply with all declared performance characteristics specified in clause 8. This national declaration of performance has been issued in accordance with the Act of 16 April 2004 on Construction Products, under the sole responsibility of the manufacturer.

The national declaration of performance is available at: http://ks.metinvestholding.com.

Signed on behalf of the manufacturer:	1
Technology and Quality Director	Viktor DEMBYTSKY
(position)	(signature)
Kamianske, Ukraine April 1, 2024	KAMETA CTANIL CTANIL CTANIL
(place and issue date)	*CITION 05393085***