

Kamianets-Podilsky, 8 January 2024

CERTIFICATE OF QUALITY

Product: Portland Cement ПЦ II/A-K(Ш-B)-500P EN 197-1 CEM II/A-M(S-L)-42,5R BULK

Approx: 219 700 t.

Exporter: JSC Podilsky cement, Ukraine

Importer: „SERVPRODLAND” SRL, MD-4822, Republica Moldova.

Shipped by train to border Oknitsa/Sokiryany in following wagons:

93020030, 93022713, 93038164.

Destination: Dubasani Vechii, MD-4822, raionul Criuleni, Republica Moldova.

1. The chemical composition of the clinker, %

Parameters	%	Parameters	%
SiO ₂	21,0 - 22,7	LSF	96,98 - 97,89
Al ₂ O ₃	4,5 - 5,5	MS	2,39 - 2,48
Fe ₂ O ₃	3,1 - 4,1	MA	1,39 - 1,46
CaO	65,5 - 67,5	C ₃ S	60 - 62
SO ₃	0,5 - 1,3	C ₂ S	13 - 15
MgO	1,4 - 1,7	C ₃ A	7,5 - 7,7
K ₂ O	0,53 - 0,73	C ₄ AF	10,6 - 11,6
Na ₂ O	0,18 - 0,24	F CaO	1,11 - 1,49

Chemical parameters are determined by X-ray analyzer.

Clinker minerals are estimated by Bogue method.

2. Physical and mechanical properties of cement, %

Fineness, sieve residue 32 mkm	%	3,0-7,0
Specific surface area, air permeability method	cm ² /g	4450-4750
Water of consistency	%	26,50 - 27,50
Setting time: initial	min.	120 - 150
final	min.	180 - 210
Soundness	mm	0
Compressive strength: 2 day	MPa	29,0 - 32,0
28 day	MPa	51,0 - 54,0

According to Ukrainian standard (EN 196-1:2016, IDT) ДСТУ EN 196-1:2019

We certify that the technical data were ascertained strictly.

Andrii Humeniuk
 Head of TCD & Laboratory

