

BLASTFURNACE CEMENT
CEM III /A 42.5 N



. Certificate of compliance № 419 is valid until 25.05.2027

Parameters	EN 197-1	Actually
Cement Chemical make-up		
Heating dissipation	Not normalized	3.7 ÷ 5.0 %
SiO ₂	" "	22.0÷27.0%
Al ₂ O ₃	" "	6.0÷8.0%
Fe ₂ O ₃	" "	2.5÷3.8%
CaO	" "	50.0÷55.0%
MgO	No more than 5 %	1.5÷3.0%
SO ₃	1 % – 3.5 %	2.5 – 3.6%
Alkali	<0.95%	0.4÷0.8%
Clinker make-up		
C ₃ S	not normalized	60÷64%
C ₂ S	" "	12 ÷18%
C ₃ A	" "	5÷9 %
C ₄ AF	" "	9÷13%
MgO	No more than 5 %	1.3÷ 2.1 %
Physical parameters		
Grinding rate (residue 008 on strainer)	No more than 15 %	0 – 2 %
Binding terms:		
Initial	No earlier than 75 min.	2.0 – 3.0 h.
End	No more than 10 h.	3.0 – 4.0 h.
Steady expansion	Must provide	Provides
Water consumption	Not normalized	28 – 31 %
Specific surface	Not normalized	3800÷4100cm ² /g
Breaking point		
Compressing:		
After 2 days	No less than 10.0 Mpa	16.0 – 18.0 Mpa
After 28 days	No less than 42.5 Mpa	45 – 48.0 Mpa

Plant quality manager:

N. Kesauri