

CERTIFICATION

We certify the cement described here, at the time of shipment, meets chemical and physical requirements of the current ASTM C150 specifications for Type I/II. We are not responsible for improper use or workmanship.

Type: Type I/II Cement - ASTM C-150

Manufacturer: NUH Port, Hereke, Turkey

TxDot Producer Code: 9834

Production Period: April 1, 2025

Beginning Ending: May 4, 2025

CHEMICAL			PHYSICAL		
Item	ASTM C 150 Spec. Limit	Test Result	Item	ASTM C 150 Spec. Limit	Test Result
SiO ₂ (%)	-	19.63	Air Content of Mortar (volume%)	12 maximum	3.31
Al ₂ O ₃ (%)	-	4.52	Blaine Fineness (m ² /kg) **	260 minimum	414
Fe ₂ O ₃ (%)	-	3.82	Autoclave Expansion	0.80 maximum	0.12
CaO (%)	-	64.01	C 1038 Mortar bar expansion (%)	0.020 max	
MgO (%)	6.0 maximum	1.50	Time of Setting (minutes)		
SO ₃ (%)	3.5 *	2.69	Initial	Not less than 45	104
Na ₂ O (%)	-	0.11	Final	Not more than 375	143
K ₂ O (%)	-	0.62	Compressive Strength		
Equivalent Alkalies (%)		0.52	1 Day (psi)	-	2698
	minimum	0.50	3 Day (psi) minimum	(1,740)	4119
	maximum	0.55	7 Day (psi) minimum	(2,760)	5366
Ignition Loss (%)	3.5 maximum	2.58	28 Day (psi) minimum	(4,060)	7063
Insoluble Residue (%)	1.5 maximum	0.34			
C ₃ A (%)	-	5.51			
C ₃ S (%)	-	61.33			
C ₂ S (%)	-	14.98			
C ₄ AF (%)	-	11.63			

* When (C₃A) is more than 8% the SO₃ limit is not applicable. If Limestone is added it is 3.5%.

** Maximum fineness limits do not apply if the sum of C₃S + 4.75C₃A is less than or equal to 90.

Signature:



Ali Medjaouri

Title:

Technical Quality Manager