

QUALITY PERFORMANCE REPORT

Cement Type/Class: **API Class G HSR** Standard of Reference **API Spec. 10A**
 Factory: **Siniscola** All shipments from **01/01/2021 to 30/04/2021**

CHEMICAL PROPERTIES

Determination:	U.M.	Mean value	Specification API Spec 10A
MgO	(%)	1,12	≤ 6,0
SO ₃	(%)	2,58	≤ 3,0
Loss on ignition	(%)	1,3	≤ 3,0
Insoluble residue	(%)	0,18	≤ 0,75
Tricalcium silicate (C ₃ S)	(%)	53,7	≥ 48 / ≤ 65
Tricalcium aluminate (C ₃ A)	(%)	0,1	≤ 3
Since TM is >0,64 (C ₄ AF + 2 x C ₃ A)	(%)	16	≤ 24
Na ₂ O equivalent	(%)	0,69	≤ 0,75

PHYSICAL PROPERTIES

(44% BOWC mix water, neat)			
Specific Surface Area (Blaine)	(m ² /kg)	341	NR
Absolute grain density	(g/cm ³)	3,19	NR
Slurry density	(kg/l)	1,91	NR
Free Fluid	(%)	3,1	≤ 5,9
Compressive strength 8h/38° C	(psi)	460	≥ 300
Compressive strength 8h/60° C	(psi)	2500	≥ 1500
Thickening Time (TT), neat API sch.5 * (Depyh: 8.000ft, BHCT: 52° c)			
Consistency after 30 min	Bc	20	≤ 30
Time to 30 Bc	min	74	≥ 30
Thickening Time (Time to 100 Bc)	min	114	≥ 90 / ≤ 120

Emission	Date	Doc. n.	Approval
Plant Manager Siniscola	06th May 2021	RQPEX19 SIN G HSR S 03 /21/ DYC	<i>Giuseppe Beccia</i>

Note:

Average results of conformity testing in accordance with * API Spec 10A, 25th Ed. (2019) and ISO 10426-1: 2009

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