



Ash Grove
Sumterville Plant
ASTM Masonry Cement Type S
November Mill Certificate

Production Period : 10/1/2023 To 10/31/2023

STANDARD REQUIREMENTS

| Item | Physical Data | |
|-----------------------------------|-----------------|---------------|
| | Spec. Limit | Results |
| Air Content of mortar (volume %) | 8 - 19 | 14 |
| Water Retention (%) | 70 min | 78 |
| Retained No. 325 Sieve (%) | 24 max | 2.6 |
| Compressive strength (MPa/psi): | | |
| 7 days | 9.0 [1300] min | 20.3 [2940] |
| 28 days (<i>previous month</i>) | 14.5 [2100] min | 21.9 [3170] |
| Time of setting (minutes) | | |
| (Gilmore) Initial | 90 min | 150 |
| (Gilmore) Final | 1000 max | 311 |

This cement meets ASTM C91-16 Specification for Masonry Type S Cement.

November 9, 2023
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