

## 913-M-075 BENTONITE CHIPS AND POWDER

(Adopted 11-19-25)

The Standard Specifications are revised as follows:

SECTION 701, BEGIN LINE 13, DELETE AND INSERT AS FOLLOWS:

**701.02 Materials**

Materials shall be in accordance with the following:

B Borrow .....	904.06*
Bentonite Grout Chips and Powder .....	913.06
Concrete Piles .....	707

SECTION 913, BEGIN LINE 69, DELETE AND INSERT AS FOLLOWS:

**913.06 Bentonite Grout Chips and Powder**

Bentonite ~~grout chips and powder~~ shall be untreated, sodium bentonite, ~~finely ground with not more than 5% retained on the No. 200 (75  $\mu$ m) sieve with a moisture content between 6% and 10%. Calcium bentonite shall not be used. It shall be free of lumps, and materials that can prevent mixing into a fluid free of~~ When mixing powder with a fluid to make bentonite grout, the Contractor shall ensure that lumps of unmixed bentonite do not form. ~~Calcium bentonite will not be accepted. Bentonite chips and powder shall be in accordance with the following gradations.~~

GRADATION REQUIREMENTS FOR BENTONITE CHIPS	
Sieve Size	Percent Retained, max.
No. 8 (2.36 mm)	1
No. 20 (850 $\mu$ m)	35
No. 100 (150 $\mu$ m)	50
No. 200 (75 $\mu$ m)*	10
Pan	5
* Wet screen analysis $3.0 \pm 0.5$ (% residue on No. 200 (75 $\mu$ m) sieve)	

GRADATION REQUIREMENTS FOR BENTONITE POWDER	
Sieve Size	Percent Retained, max.
No. 200 (75 $\mu$ m)*	5
* Wet screen analysis $3.0 \pm 0.5$ (% residue on No. 200 (75 $\mu$ m) sieve)	

Other gradations may be submitted for consideration by the Engineer.

The grout shall be proportioned at 2 lb of pure bentonite powder per gal. of potable water. A Type C certification in accordance with 916 shall be provided for the bentonite chips and bentonite powder.