

AMC BENTONITE PELLETS R30™

Specialty Products & Chemicals



Description

BENTONITE PELLETS R30™ are compressed tablets made from highly swelling bentonite coated with a non-sticking film that delays the hydration time. When put in place down hole, they form a flexible, impermeable seal. BENTONITE PELLETS R30™ have the advantage of usable at greater depths than conventional bentonite plug material due to the unique coating that slows down the hydration and swelling process.

Application

BENTONITE PELLETS R30™ are hydration-retarded pellets used for the sealing of water, monitoring and piezometer wells. BENTONITE PELLETS R30™ provide an impermeable, flexible barrier between aquifers; they are also used to prevent contamination from surface water into the well. BENTONITE PELLETS R30™ can also be used to backfill or abandon all types of bore holes or seal in surface casing. When exposed to fresh water, BENTONITE PELLETS R30™ will swell and expand to fill voids, exerting pressure against all surfaces to create a flexible, low permeability seal.

BENTONITE PELLETS R30™ do not require any mixing equipment and can simply be poured directly into place even through standing water without sticking together. BENTONITE PELLETS R30™ should be introduced slowly from the surface to minimise bridging. They can also be channeled through a tremie line into place when necessary.

Typical Physical Properties

Appearance:	Light to dark grey solid
Solubility:	Insoluble in water
Specific gravity:	2.4 – 2.6

Recommended Treatment

Hole Size (mm)	Hole Vol. (m ³)	Hole Vol. (L/m)	kg of R30 pellets per meter of hole	
			1/4"	1/2"
76.0	0.005	4.6	5.2	5.0
102.0	0.008	8.1	9.4	9.0
114.0	0.010	10.3	11.8	11.3
127.0	0.013	12.7	14.6	14.0
140.0	0.015	15.3	17.8	17.0
152.0	0.018	18.2	20.9	20.1
178.0	0.025	24.8	28.7	27.5
191.0	0.029	28.5	33.0	31.7
200.0	0.031	31.4	36.2	34.7
216.0	0.037	36.6	42.3	40.5
254.0	0.051	50.7	58.4	56.0
279.0	0.061	61.3	70.5	67.6
305.0	0.073	73.0	84.3	80.7
324.0	0.082	82.4	95.1	91.1
445.0	0.155	155.2	179.4	171.9
610.0	0.292	291.9	337.0	323.0
660.0	0.343	342.6	394.5	378.1
762.0	0.456	456.1	525.9	504.0
914.0	0.657	656.8	756.6	725.1

Please Note: Several factors will dictate the most appropriate concentration rate. Please contact your nearest AMC representative for optimum results.

Advantages

- Does not produce dust when handling
- No mixing or pumping equipment required
- Helps regain circulation
- Provides a flexible impermeable seal
- Environmentally acceptable

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