

# PAM-12<sup>®</sup> Plus – Erosion Control



## Specification Language and Performance Data

### PAM-12<sup>®</sup> Plus Soil Stabilization Granules Specification

The soil stabilization granules (active ingredient anionic WSPAM) shall be applied on the surface of disturbed soils to reduce water erosion and minimize the production of sediment by binding soil particles, effectively increasing the soil particle size to 1.0 mm or larger.

The soil stabilization granules shall consist of recycled paper fiber coated and impregnated with a blend of anionic water soluble linear polyacrylamides (WSPAM) mixed with a calcium supplement. The total active anionic WSPAM content will be no less than 2.3% and be of high molecular weight and of medium charge density.

The anionic WSPAM shall have no more than 0.05% acrylic monomer by weight, as established by the Food And Drug Administration (FDA) and the Environmental Protection Agency (EPA).

The soil stabilization granule must be beneficial to the establishment of vegetation and shall be environmentally compatible, harmless to fish and wildlife.

The soil stabilization granule shall be applied dry with broadcast seeder/spreaders or wet with conventional hydraulic seeding equipment.

### Performance Tests

The soil stabilization granule shall be PAM-12<sup>®</sup> Plus, as manufactured by ENCAP<sup>®</sup>, LLC, and shall conform to the following performance tests.

DESCRIPTION	TEST	RESULTS
Erosion Control Performance	ASTM D 6459: 2+4 in/hr	0.075*
Erosion Control Performance	ASTM D 6459: 2+4+6 in/hr	0.356*
Vegetation Establishment	ECTC Test Method #4	>338%
Toxicity (Survival %> 75)	EPA-600-R-99-064	H.azteca - 98.8%
Toxicity (Survival %> 75)	ASTM E 1706-05	C. dubia - 100%

\*C-Factor - The effect of surface cover and roughness on soil erosion as calculated using RUSLE



PREPARED SLOPE TEST

### TEST PROTOCOL

Facility: TRI/Environmental, Inc.

Test Method: ASTM D 6459 Standard Test

Soil Type: Sandy Loam

Bed Slope: 3H to 1V, 40 ft.

Rainfall Intensity: 2, 4, and 6 inch/hr

(Rain events applied in sequence for 20 minutes each)

PAM-12<sup>®</sup> Plus Application Rate: 2000 lbs/ac



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