

**UNITED STATES DEPARTMENT OF AGRICULTURE  
NATURAL RESOURCES CONSERVATION SERVICE**

**MATERIAL SPECIFICATION  
MS-219: "EROSION CONTROL BLANKETS"**

219.1 SCOPE

This specification governs the quality of the erosion control blankets for slope and/or channel protection.

219.2 QUALITY

All non-thermally bonded erosion control blankets shall have polypropylene netting on both sides that is sewn with polypropylene thread of 750 denier or larger diameter. The minimum requirement for each type of blanket identified in this specification is:

Type	Material	Weight OZ/SY	Thickness Inches	Shear Stress LB/SF	Tensile Strength LB/FT	Ground Cover Percent	Life Years	Netting & Thread Ultra-Violet light Stabilized
I	Grain Straw Blanket	8.0	0.25	2.0	60	90	<1.0	No
II	Coir Fiber Blanket	9.5	0.25	3.0	125	90	>5.0	Yes
III	Polyolefin Fiber Blanket	12.0	0.50	6.0	200	50	> 5.0	Yes
IV	Wood Fiber Blanket	15.0	0.50	2.5	----	90	< 2.0	No
V	Coir Fiber Mat	20.0	0.30	----	670	50	>5.0	N/A
VI	Thermally Bonded Nylon Monofilament	8.0	0.40	6.0	180	10	>10.0	Yes*
VII	Thermally Bonded Nylon Monofilament	12.0	0.75	8.0	250	10	>10.0	Yes*
VIII	Thermally Bonded Polyvinylchloride Monofilament	25.0	0.10	5.0	140	25	>10.0	Yes*

\* Material for monofilament blankets are ultra-violet light stabilized

219.3 FASTENERS

The fasteners shall be 11 gauge "U" shaped staples with 1 inch crowns and 6 inch legs.