

SG 150 Uni-Axial Knitted Geogrid



GeoCHEM INCORPORATED

STRATAGRID geogrids are constructed of high molecular weight and high tenacity polyester yarns utilizing a complex knitting process and polymer coating to provide superior engineering properties. STRATAGRID is engineered to be mechanically and chemically durable, in both the harsh construction installation phase and in aggressive soil environments (pH range from 3-9).

PROPERTY	TEST METHOD	ENGLISH	METRIC
Ultimate Strength	ASTM D-6637 Method A	1,875 lbs/ft	27.4 kN/m
Strength @ 2% Strain	ASTM D-6637 Method A	200 x 200 lbs/ft	2.9 x 2.9 kN/m
Strength @ 5% Strain	ASTM D-6637 Method A	400 x 300 lbs/ft	5.6 x 4.4 kN/m
Creep Limited Strength	ASTM D-5262/D-6992	1,136 lbs/ft	16.6 kN/m
LTDS (SW, SP, SM, SC)	LTDS or Tal	861 lbs/ft	12.56 kN/m
LTDS (GP, GW, GM, GC, SW, SP, SM, SC)	LTDS or Tal	795 lbs/ft	11.6 kN/m
LTDS (GW, GP, GM, GC)	LTDS or Tal	608 lbs/ft	8.9 kN/m
Molecular Weight (min.)	GRI GG8	-	25,000 g/mol
Carboxyl End Group Count (max.)	GRI GG7	-	30 Meg/kg
Aperture Size	Measured	.95 x .90 in	24.1 x 22.9 mm

ROLL SIZE	AREA	WEIGHT
6' x 150'	100 sys	42 lbs
12' x 150'	200 sys	90 lbs

REDUCTION FACTOR	VALUE
RF(id) Soil - 20mm minus, D50 ≤ 0.2mm (SW, SP, SM, SC)	1.20
RF(id) Soil - 25mm minus, D50 ≤ 8mm (GP, GW, GM, GC, SW, SP, SM, SC)	1.30
RF(id) Soil - 50mm minus, D50 ≤ 20mm (GW, GP, GM, GC)	1.70
RF(d) (3 ≤ pH ≤ 9) (PET - CEG < 30, MW > 25,000)	1.10

SOIL INTERACTION COEFFICIENT	VALUE
Silts/Clay (ML, CL)	0.6 - 0.7
Sandy Silts & Clay (SC,GC)	0.7 - 0.8
Poorly-Graded Sand & Gravel, Silty Sand (GP, GM, SP, SM)	0.8 - 0.9
Well-Graded Gravel, Sand Gravel Mix, Well-Graded Sand (SW, GW)	0.9 - 1.0

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