

Geotextiles and other geosynthetics: applications, types and manufacturers

<https://marketpublishers.com/r/G835C030ECFEN.html>

Date: October 2017

Pages: 20

Price: US\$ 350.00 (Single User License)

ID: G835C030ECFEN

Abstracts

Geotextiles and other geosynthetics are used in contact with soil or rock in a civil engineering operation. They are capable of performing a wide range of functions, including confinement, drainage, erosion control, filtration, materials separation, monitoring, soil reinforcement, sealing and stress relief. Specific applications include the construction of embankments, landfills, pipelines, railways, retaining structures, roads, tunnels, coastline protection works and marine structures. Geotextiles and other geosynthetics are making gains at the expense of traditional construction materials—reflecting the fact that they provide scope for achieving reductions in transport and labour costs, in the amount of fill material needed, and in the duration of a project. Also, they have a much lower impact on the environment than traditional technologies which use natural soils as they provide scope for reducing CO2 emissions and the amount of excavation needed. This report provides a wealth of information on the market for geotextiles and other geosynthetics, including types and applications, and the leading manufacturers of such products. It also includes recent developments in the sector and case studies of major projects.

Contents

SIZE AND GROWTH OF THE MARKETS FOR GEOSYNTHETICS

AND GEOTEXTILES

Geosynthetics

Geotextiles

GEOSYNTHETICS: TYPES, MANUFACTURERS, COST

ADVANTAGES AND RECENT DEVELOPMENTS

Types of geosynthetics

Leading manufacturers of geosynthetics

Cost advantages of using geosynthetics

Recent developments

APPLICATIONS OF GEOSYNTHETICS

MATERIALS USED IN THE MANUFACTURE OF GEOSYNTHETICS

TYPES AND APPLICATIONS OF CONTROLLED PERMEABILITY

FORMWORK (CFP) LINERS

TYPES AND APPLICATIONS OF CUSPATES

TYPES AND APPLICATIONS OF GEOCELLS

TYPES AND APPLICATIONS OF GEOFOAMS

TYPES AND APPLICATIONS OF GEOGRIDS AND GEONETS

Uniaxial or biaxial materials?

Manufacturing methods

TYPES AND APPLICATIONS OF GEOMEMBRANES

TYPES AND APPLICATIONS OF GEOSYNTHETIC CLAY LINERS

(GCLs)

TYPES AND APPLICATIONS OF GEOTEXTILES

Nonwoven geotextiles or woven geotextiles?

Needlepunched nonwoven geotextiles or other types

STRUCTURAL HEALTH MONITORING

CASE STUDY: CONCRETE REINFORCEMENT FOR CAUSEWAY

USING MATERIALS SUPPLIED BY FIBERTEX NONWOVENS

CASE STUDY: INTELLIGENT GEOTEXTILES USING MATERIALS

SUPPLIED BY IMAGINE INTELLIGENT MATERIALS AND

GEOFABRICS AUSTRALASIA

CASE STUDY: LANDFILL LINING USING MATERIALS SUPPLIED

BY GEOFABRICS

CASE STUDY: PANAMA CANAL EXPANSION USING MATERIALS

SUPPLIED BY MANIFATTURA FONTANA

CASE STUDY: RAILWAY LINE REINFORCEMENT USING

MATERIALS SUPPLIED BY GEOFABRICS

CASE STUDY: STABILISING, PROTECTING AND SUPPORTING

VEGETATION GROWTH ON MOTORWAY EMBANKMENTS USING

MATERIALS SUPPLIED BY TERRAM

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