

# Technical Data Sheet

## GRINCODE multiaxial rockshield



Protection of corrosion-resistant coating



**GRINCODE multiaxial rockshield** is a composite manufactured using up-to-date high-strength glass-fiber and synthetic nonwoven material and impregnated with environmental friendly thermoplastic resins.

**Typical application:** protection of corrosion-resistant coating (insulation) on gas- and oil pipelines from physical damage when being laid in rocky and permafrost soil. Effective protection

of pre-insulated surface of large-bore pipelines used in oil&gas producing industry. Rockshield is needed for laying pipelines in rocky soil and permafrost. Rockshield is also used in complex inorganic soils with rocks, pebbles inclusions etc.

### Physical and mechanical properties

Properties	Unit	Value
Surface weight	kg/m <sup>2</sup>	1700-2700
Impact resistance, not less than	J	50 <sup>3</sup>
Tensile strength (50x220 mm ribbon) at + 23°C, not less than	kgf	450
Transverse tensile strength (50x220 mm ribbon) at + 23°C, not less than	kgf	410
Elongation at break at + 23°C, not more than	%	10
Water absorption, not less than	%	7

**Advantages:** Multiaxial fabrics ensure rigidity and tensile-, breaking- flexing strength, puncture resistance of a structure. Nonwoven ensures damping of impact loads which occur when backfilling of a pipeline with coarse fractions of frozen and rocky soils and when laying a pipeline amidst cryolithic soils.

#### Regulatory documents:

- TU 8397-015-00205009-2010

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