

PLANT FOR PRODUCING BASALT SUPERFINE FIBERS (BSFF)

Areas of Application

To produce BSFF ($\text{Ø}1\pm 3 \mu\text{m}$) for the duplex technology. The product is obtained from 5 ± 20 mm gravel fractions in the form of canvas with a given density and size. This canvas is used for manufacturing environment friendly highly resilient heat- and sound-insulating materials with a high resistance to thermal transmission, aggressive substances, extreme temperature, and vibration to be employed in power engineering, metallurgy, machine-, aircraft- and shipbuilding industries, and construction



General view of the plant

Specification

Continuous running plant.

Yield capacity, kg/day	≤600
Consumption:	
natural gas, m ³ /kg	2.3
power, kW · h/kg	2.6



BSFF canvas

Advantages

As compared with the best world counterparts, this plant enables 1.5 times reduction in power consumption; improving the product quality as the share of BSFF-sp type (with the content of non-fiber particles less than 4.8%) increases by 10%

Stage of Development.
Suggestions for Commercialization

IRL7, TRL7
Manufacture, staff training,
and warranty service, upon request

IPR Protection

IPR1

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