



Technical Characteristics										
Type [Ø]± 5 %	Basalt reinforced rebar									Standard/ Method
	3	4	5	6	8	10	12	14	16	CSA S807 ГОСТ 31938-2012 (A)
Linear density (linear mass) [g/m] ± 10 %	20	24	40	50	90	140	210	300	390	ACI 440.1R-06 ACI 440.3R
Section area [mm ²]	7,07	12,57	19,63	28,27	50,25	78,51	113,10	153,90	200,96	CSA S807
Volumic density [g/cm ³] ± 3 %	2,0									ACI 440.1R-06 (440.1R-9), ACI 440.3R ГОСТ 15139-69
Longitudal thermal expansion coeff. [α*10-6/K]	21-23									ASTM E 831
Tensile strength [MPa] ± 5 %	Not less than 1100									ASTM D7205 ГОСТ 31938-2012 (Б)
Elasticity module [MPa] Not less than ≥	60000									CAN/CSA-S806 ГОСТ 31938-2012 (Б)
Water absorption [%]	0,4									ASTM D570
Elongation ratio [%]	2,2									ACI 440.1R-06 (440.1R-9), ACI 440.3R ГОСТ 31938-2012 (Б)
Electrical Conductivity & Thermal Conductivity	Dielectric % Non-thermal conductive									ACI 440.1R-06
Corrosion resistance	Resistant to corrosion									CAN/CSA-S806-02
Exploitation temperature [°C]	-70 to +100									ACI 440.1R-06 (440.1R-13), ACI 440.3R



Physical Characteristics	
shape	Rod-fittings
Colour	Dark brown, thin grayish
Smell	Neutral
Physiological characteristics	With neutral feeling
Toxicity characteristics	Non-toxic
Fire resistance	Non-flammable, with self-fading staple
Stability towards vibration	Vibration resistant
Chemical Characteristics	
Content	Basalt rock fiber - % <i>SiO₂ 48-52; Al₂O₃ 14-18; Fe₂O₃ 7-11; TiO₂ 0,2-2; CaO 8-11; MgO 3,5-8,5; Na₂O K₂O 2,5-6; MnO ≥ 2; SO₃ > 0,2</i> Synthetic thermoreactive resin.
Additional typical Characteristics	
Prevention activities	Does not require technical or individual activities.
Main function	Reinforcement of building constructions and elements
Sphere of usage	Civil, industrial, transportation building elements, covering plates, building foundations, Marine area port constructions, thin wall constructions, automobile road reinforcement, bearing constructions (not higher than three floor buildings), Irrigation canals and so on.
Storage conditions	Does not require special conditions