TECHNICAL FABRICS OF CERAMIC AND SILICATE

Ceramic:

Ceramic fabrics are made from fibers produced by melting of materials with high contents of Si and Al. Together with a small amount of cellulose fibers entangled around the thin reinforcing fibers or glass roving or chrome-nickel wire. Thus obtained ceramic yarn is used for making various textile products.

Characteristics:

Maximum continuous operating temperature:

- with glass fiber reinforcement - 650°C
- a reinforcement of chrome-nickel wire - 1100°C

Inflammable material after decomposition of organic compounds (18% - 20%).

Resistant to acids and bases (except hydrofluoric and phosphoric acid and strong alkaline solutions) material.

Silicate:

Silicate fibers are obtained by adding specific chemicals in the process of obtaining, thermally treated to obtain a composition with possible high purity Si. Products obtained by this technology have elasticity and retain their mechanical properties to temperatures 850°C.

They do not cause skin irritation and are not harmful to health.

Characteristics:

Maximum continuous working temperature - 850°C.

Maximum short term temperature - 1000°C.

Diameter of the fiber - 6 μm

Contains no toxic substances or heavy metals.

Suggested types of ceramic and silicate fabrics:

Producer	Type	Composition	Density, gr/m^2	Width, mm
MONTERO	TC-100	Ceramic, glass fiber reinforcement	1000	1000
MONTERO	TC-110 I	Ceramic, inconel reinforcement	1100	1000
MONTERO	TC-145 I	Ceramic, inconel reinforcement	1450	1000
GAMBIT	3042	Ceramic, glass fiber reinforcement	to 1500	to 1500
GAMBIT	3032	Ceramic, inconel reinforcement	to 1500	to 1500
MONTERO	TS-65	Silicate	650	900
MONTERO	TS-125	Silicate	1150	900
MONTERO	TS-125AP	Silicate, with polyurethane coating	1250	900
GAMBIT	3052	Silicate	to 1500	to 1500

Suggested types of ceramic tapes and silicate fibers:

Producer	Type	Composition	Density gr/m^2	Width, mm												
MONTERO	CTC-60	Ceramic, glass fiber reinforcement	1075		30	40	50									
MONTERO	CTC-61	Ceramic, glass fiber reinforcement	1600		30	40	50	60		80		100				
MONTERO	CTC-66	Ceramic, inconel reinforcement	1485	20	30	40	50	60	70	80	90	100		150		200
MONTERO	CTC-70	Silicate	1800		30			60								
GAMBIT	3042	Ceramic	to 1600	20	30	40	50	60	70	80	90	100	120	150	180	200
GAMBIT	3032	Ceramic	to 1600	20	30	40	50	60	70	80	90	100	120	150	180	200
GAMBIT	3053	Silicate	to 1800	20	30	40	50	60	70	80	90	100	120	150	180	200

*inconel – chrome-nickel fiber