THE EREMA HEATING ELEMENT TYPE U3

The energy saving EREMA U type heating element has been widely used where efficiency and reliability are required. A new type "U3" has been designed and developed using our advanced molding processes to meet customer's requirements for increased reliability and performance. The U3 has no crossbar, the heating section continues around the bend. This allows for more even heat distribution, greater surface area and potential power for a given hot zone. Having no joints at the cross bar, the U3 is even more reliable than the standard U. Mechanical properties such as bend strength and porosity have also been enhanced. The U3 can be used in vertical applications only and is a direct replacement for the U type.

1 Physical Characteristics

Physical characteristics	Type U3	Type U
Bending strength(MPa)	55	50
Porosity(%)	22.0	23.0
Apparent specific gravity	3.21	3.21
Bulk specific gravity	2.50	2.48
Resistivity of hot zone(Ω cm)	0.08	0.08
Max.furnace temperature(℃)	1400	1400

2 Shape

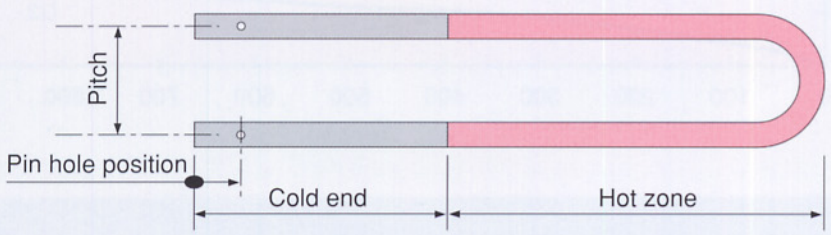
Outside diameter : ϕ 16, 20, 25mm

Hot zone length(max.) : 800mm

Cold end length(max.) : 500mm

U3 type is available in increments of 50mm, with the maximum produceable length as specified above. Various pitches are available on request.

Hot zone construction is solid.



Model number:(Example) U3 20 × 300 × 250 − 50

Type Diameter × Hot zone length × Cold end length − Pitch

Standard pin hole positions are listed below. Other pin hole positions are also possible.

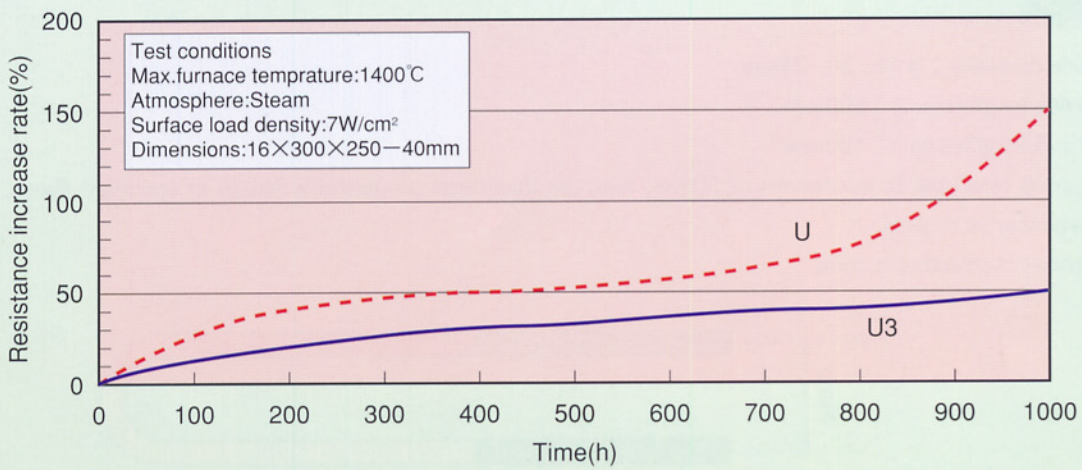
Outside diameter(mm)	Pin hole position(mm)
16	40
20	45
25	55

3 Electrical Specifications

Electrical specifications are common among types U3 and U in the range shoen above.

4 Heating Picture

5 Life Test



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