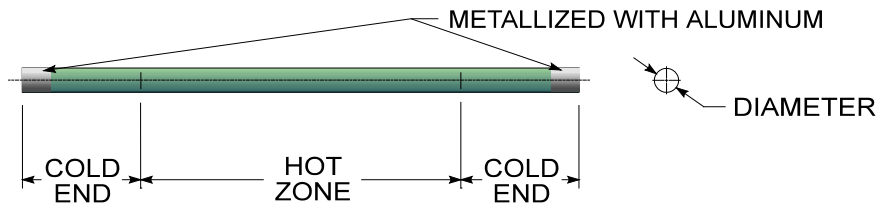


Starbar® TYPE TW

GENERAL DESCRIPTION

The Starbar TW element is a higher density element, used in severe applications such as corrosive atmospheres or where normal RR type elements do not provide acceptable service life. The TW element has a typical density ~13% higher than normal RR elements. (2.85 vs. 2.52 g/cm³) This higher density results in slower oxidation and aging, which yields longer element life. The dimensions and electrical properties of the TW element are identical to those of the RR element, therefore, a TW element may be interchanged directly for an RR element. The TW element due to its higher density may be more prone to thermal shock during installation into hot furnaces. Special care should be used not to thermal shock new elements during installation and heat up.



TW Starbars are described by giving the overall length, the heating section length, the diameter, and nominal electrical resistance. As an example, TW 43 x 24 x 1 is a Starbar 43" overall with a 24" hot zone, and 1" in diameter. R=1.27Ω ±20% @ 1960°F/1071°C

SIZES AVAILABLE

TW elements are available in diameters of 5/8" through 2-1/8". For minimum and maximum heated lengths and overall lengths please contact our office. For other recommendations follow as for type RR elements.

Table A

TW Dimensions		** TW Electrical Resistance			
Nominal Diameter		Ohms Hot Zone		Ohms Cold Ends	
mm	Inch	Ohms / mm	Ohms / Inch	Ohms / mm	Ohms / Inch
16	5/8	0.00490	0.1245	0.000248	0.00631
19	3/4	0.00346	0.0879	0.000170	0.00433
25	1	0.00200	0.0510	0.000098	0.00250
32	1-1/4	0.00126	0.0320	0.000067	0.00171
35	1-3/8	0.00106	0.0269	0.000053	0.00135
38	1-1/2	0.00083	0.0212	0.000046	0.00117
44	1-3/4	0.00065	0.0165	0.000032	0.00082
54	2-1/8	0.00059	0.0149	0.000030	0.00075

** All resistance values are +/-20%



Silicon Carbide Heating Elements

