

TZM SHEET PRODUCTS **MATERIAL DATA SHEET**

Elmet Technologies manufactures high quality TZM foil, sheet, and plate for use in furnace components and other applications that require high strength and creep resistance at high temperatures.

DIMENSIONAL PROPERTIES

STANDARD PRODUCT SIZES

Thickness	Condition	Finish	Maximum Length & Width
>0.005-0.030"	Cold rolled	Satin	159" x 24"
>0.030-0.040"	Cold rolled	Satin	120" x 24"
>0.040-0.050"	Cold rolled	Satin	95" x 24"
>0.050-0.060"	Cold rolled	Satin	80" x 24"
>0.060-0.1875"	Hot rolled	Clean, Ground	96" x 24"
>0.1875-0.250"	Hot rolled	Clean, Ground	46" x 24"
>0.250-0.500"	Hot rolled	Clean, Ground	24" x 24"
>0.500-1.00"	Hot rolled	Clean, Ground	14" x 24"

Other sizes and properties available as special order

CHEMICAL COMPOSITION

Mo	≥ 99.0 wt%	K	≤ 30 ppm
Ti	0.4 – 0.55 wt%	N	≤ 20 ppm
Zr	0.06 – 0.12 wt%	Ni	≤ 50 ppm
C	100 – 400 ppm	O	≤ 600 ppm
Cr	≤ 50 ppm	Si	≤ 25 ppm
Fe	≤ 100 ppm	W	≤ 300 ppm

All other metallic elements are contained at ≤ 20 ppm
Other chemistries may be available as special order
All products are compliant with EU RoHS Directive 2002/95/EC, 2011/65/EU

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Thickness	Condition	Finish	Maximum Length & Width
>0.12-0.76 mm	Cold rolled	Satin	400 x 60 cm
>0.76-1.00 mm	Cold rolled	Satin	300 x 60 cm
>1.00-1.27 mm	Cold rolled	Satin	240 x 60 cm
>1.27-1.52 mm	Cold rolled	Satin	200 x 60 cm
>1.52-4.76 mm	Hot rolled	Clean, Ground	240 x 60 cm
>4.76-6.35 mm	Hot rolled	Clean, Ground	120 x 60 cm
>6.35-12.7 mm	Hot rolled	Clean, Ground	60 x 60 cm
>12.7-25.4 mm	Hot rolled	Clean, Ground	36 x 60 cm

Other sizes and properties available as special order

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Mo	≥ 99.0 wt%	K	≤ 30 ppm
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