



**UTEX INDUSTRIES, INC.**  
*Taking Sealing Technology Beyond Tomorrow*  
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# PRODUCT BULLETIN

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## Utex Knitted Wire Mesh

**Utex Knitted Wire Mesh** has many uses such as back-up rings, scrapers, filters and high temperature seals. Utex also has a patented process (#4219204) whereby knitted wire mesh is molded in conjunction with homogeneous rubber or other materials to act as an anti-extrusion device.

**Utex Knitted Wire Mesh** is also available with fillers such as graphite, PTFE and aramid yarns. Standard materials for the mesh itself include stainless steel, copper, Inconel® and phosphor bronze. Other special alloys are available and non-standard densities can be produced from all materials.

The following specifications are for parts with a projected area less than 12 in.<sup>2</sup> :

STYLE	DESCRIPTION	DENSITY (LB/IN <sup>3</sup> )	DENSITY MESH % DENSITY SOLID METAL
0180	Graphite and .0045" diameter 304 S.S. wire. Approx 50% graphite by weight.	0.11 ± .015	N/A
0181	Graphite and .0045" diameter copper wire. Approx 50% graphite by weight.	0.10 ± .015	N/A
0182	Aramid yarn .008" diameter 316 S.S. wire. Approx 25% aramid by weight.	0.09 ± .015	N/A
0183	Graphite and .011" diameter 316 S.S. wire. Approx 40% graphite by weight.	0.08 ± .015	N/A
0184	Aramid yarn, PTFE & .008" diameter 316 S.S. wire. Approx 9% aramid & approx 65% PTFE by weight.	0.08 ± .015	N/A
0185	316 S.S. wire, .0045" diameter, metal specs certifiable.	0.19 ± .015	65.6%
0186	316 S.S. wire, .014" diameter, metal specs certifiable.	0.20 ± .015	69.0%
0188	316 S.S. wire with three-strand construction, .009" diameter, metal specs certifiable.	0.20 ± .015	69.0%
0189	5% Phosphor Bronze wire, .011" diameter.	0.19 ± .015	60.0%
0190	304 S.S. wire, .0045" diameter.	0.19 ± .015	65.6%
0191	Copper wire, .0045" diameter.	0.26 ± .015	80.8%
0192	304 S.S. wire, .011" diameter.	0.20 ± .015	69.0%
0193	Copper wire, .011" diameter.	0.25 ± .015	77.7%
0194	316 S.S. wire, .011" diameter, metal specs certifiable.	0.20 ± .015	69.0%
0195	316 S.S. wire, .0045" diameter.	0.19 ± .015	65.6%
0196	316 S.S. wire, .014" diameter.	0.20 ± .015	69.0%
0197	Inconel® 600 wire, .011" diameter.	0.20 ± .015	69.0%

Inconel® is a Registered Trademark of Inco Alloys Intl Inc.

## FORMED MESH AND MESH COMPOSITE TOLERANCES

### DIAMETRICAL

Diameter	Tolerance
0" to 4"	± .010
4" to 12"	± .012
Over 12"	± .001 x Diameter

### HEIGHT OR THICKNESS

Height	Tolerance
0" to 3/8"	± .010
3/8" to 5/8"	± .015
Over 5/8"	± .030

### CROSS SECTIONAL

Cross Section	Tolerance
0" to 3/8"	± .005
3/8" to 5/8"	± .006
5/8" to 1"	± .008
1" to 1 ½"	± .012
1 ½" to 2"	± .016
Over 2"	Inquire