



# FABRICATED PARTS

**Wire Cloth**

**Expanded  
Metal**

**Perforated  
Metal**

**Sheet Metal**

**Sintered  
Wire Cloth**

 **Newark**  
WIRE CLOTH COMPANY

160 Forenlius Avenue, Clifton, New Jersey 07104-1844

## Fabricated Wire Cloth Parts

### Wire Cloth – A Key Player!

The Newark Wire Cloth Company has been supplying wire cloth products to industry for more than 90 years! From traditional applications in particle sizing of dry mixes, to aggregate screens, to newer *high tech* applications such as automotive air bags and pharmaceutical filtering processes – Newark Wire Cloth is everywhere. Major pieces of automated industrial equipment often require a screen, a filter, or strainer to work properly, and wire cloth helps provide the solution.

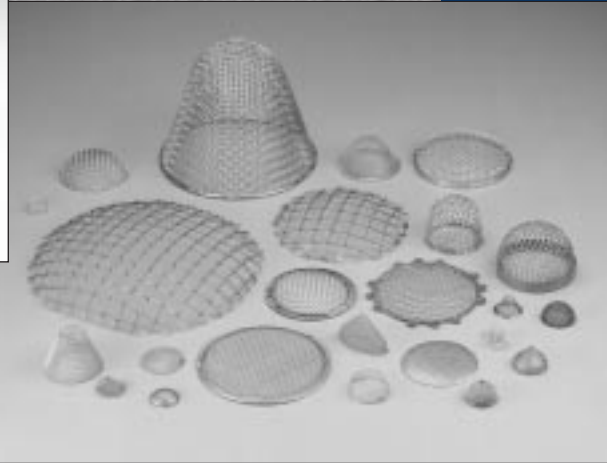
Wire Cloth has been around for centuries. Engineers choose Wire Cloth for many reasons; good strength and its relatively light weight, good flow characteristics, ability to withstand high temperatures, ability to withstand harsh environments, and its durability. Wire Cloth applications are far-reaching and diverse.

More and more new applications are developed daily. Whether working to your specifications, government specifications, or your customer's specifications – be confident that Newark Wire Cloth can supply what's needed – on time, and at a competitive price.

We are ready and willing to help with the design of a filter, screen, or wire cloth part. Talk to one of our sales experts – let their experience and Newark's 90 plus years of wire cloth *know-how* work for you. *Call toll free 800-221-0392.*



# Fabricated Wire Cloth Parts



Industry	Application
Aerospace	<i>Fuel filters, hydraulic oil filters, vent screens, air inlet screens, sound suppression of air craft engines, etc.</i>
Architectural	<i>Elevator cabs, railings, decorative ceiling panels, wall divider accent panels, drawer knobs and pulls</i>
Automotive	<i>Air bag diffuser screen, air inlet screens, sump screens, transmission screens</i>
Chemical	<i>Centrifuge screens, particle sizing, processing filters</i>
Food and Beverage	<i>Flour, candy, juices, soups, cheese and dairy, etc.</i>
Pharmaceutical	<i>Particle sizing, drying, filtering, and granulation</i>
Medical	<i>Artificial joints, hypodermic needle sterilization, etc.</i>



# Custom Fabricated Parts

## WIRE CLOTH

## EXPANDED METAL

## PERFORATED METAL

## SHEET METAL

## SINTERED WIRE CLOTH

Finding a dependable supplier of the small and intricate filter or strainer is an ongoing challenge for today's engineer and purchasing professional. Today's competitive business climate mandates that we specialize in our own area of expertise – you don't have time to worry about an inexpensive wire cloth filter that's used as a component in your company's end product or in one of your "in house" manufacturing machines. You want the filter to fit, you want it to be readily available, and you want it to be cost effective.

Newark Wire Cloth can help solve your need for fabricated wire cloth parts, filters, and strainers. Fabricated Wire Cloth Parts "are" us – we make fabricated wire cloth parts - this is our specialty!

Whether your parts have a machined detail, a stamped ring, a cast housing or sheet metal binder – whether they require wire cloth, perforated metal, sintered wire cloth or expanded metal, we can help. A wire cloth fabrication specialist – the Newark Wire Cloth Company, can more efficiently produce most wire cloth assemblies. We're staffed with manpower and equipment to do the work. Many of our employees have over 20 years experience making fabricated wire cloth parts.

Our "in house" capabilities are extensive – slitting, shearing, stamping, cutting. Please refer to the enclosed "Capabilities Listing" for greater detail.



ANY METAL  
ANY SHAPE  
LARGE OR SMALL  
PROTOTYPE  
SHORT OR  
LONG RUNS  
PROMPT DELIVERY

### Typical Construction Details

<p>Lap Seam</p>	<p>Butt Seam</p>
<p>Perforated Metal Back-up</p>	<p>Tinner's Lap</p>
<p>Cone</p>	<p>"U" Binder</p>
<p>Gasketing, Rubber &amp; Synthetic</p>	<p>Multi-Layer Construction, Sintered or Welded</p>
<p>Envelope Fold</p>	<p>Truncated Cone</p>
<p>Formed or Drawn Parts</p>	<p>Machined or Stamped Details</p>

## Quality Counts...

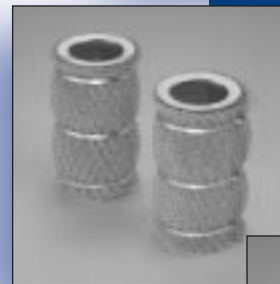
It's the little things, and paying attention to the details, that makes the difference –

- Wire cloth is not sheet metal! It is not solid. It is made of individual wires running in different directions with spaces between them. Wire Cloth behaves like cloth – it moves, wrinkles, and stretches – it's not rigid.
- Different applications require different approaches – in some a tack welded seam will work while others require a continuous weld.
- When using a two ply construction, is the coarse mesh seam smooth and burr free? If not, it could cause the fine mesh to fail prematurely.
- Do the seams line up?
- Are the seams straight?
- Is the wire cloth taut or is it loose and wrinkled?
- Is the construction adequately supported?

Experience helps us better understand your needs. Newark Wire Cloth's craftsmen make the job right the first time. Let us put our 90 plus years of wire cloth knowledge to work for you!



**Craftsmanship  
Makes A  
Difference**



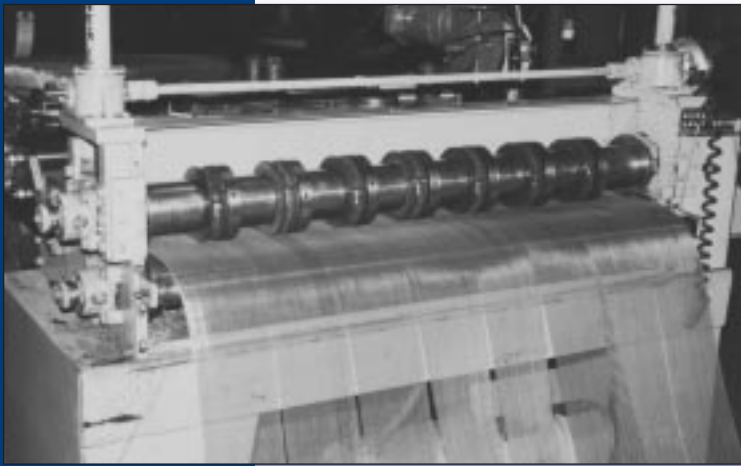
# Typical Wire Cloth Specifications

Newark Wire Cloth stocks many standard wire cloth specifications. Whether you're looking for a Market Grade specification or an ASTM E-11 designation, we will have it on the shelf or we can source it through our extensive network of worldwide weavers. We offer a complete range of wire cloth: from coarse mesh having as much as a 5" opening (between the wires) to a 635 mesh which has a 20 micron opening.

*We stock material conforming to many of the following specifications -*

- Market Grade Wire Cloth
- ASTM E11-95
- ASTM E2016-99
- RR-W-360A
- QQ-W-423
- ASTM E 437

Most wire cloth specifications can be supplied in any material: 304 SS, 316 SS, Hastelloy, Titanium, Inconel, Silver, Aluminum and others.



Gang Slitter with in-line roller leveling and shearing capabilities.

Please request a copy of our complete wire cloth catalog B-730: Contact us for a price quote on your specific requirements at **800-221-0392**.



An assortment of finished parts.

Extensive inventory assures prompt action.

## The Extras from Newark Wire Cloth...

**Single Source** – Let Newark Wire Cloth take full responsibility for your parts! Complete parts from a knowledgeable, reliable and tested source – the *Newark Wire Cloth Company!*

**Quality** – Newark Wire Cloth works to ISO standards – Newark’s manufacturing operation is compliant with the QS 9000 platform. We have selected this quality standard from the many quality systems used today. It is a management system that mandates continuous improvement. Our manufacturing facility is QS 9000 compliant, and for those demanding more, we’ve been able to customize our manufacturing process and add to our normal inspection criteria to better serve our customer’s needs.

We’re here to help! A chemical analysis, a drawing revision change, to answer a quality survey, or a walk through audit – our quality assurance staff is ready, willing, and able to assist.

**Engineering and Customer Service** - Knowledgeable and experienced staff – both on the shop floor and in the office are always available...to discuss an application, prove out the feasibility of a prototype design, or re-engineer a long standing part.

- We know wire cloth.
- We know how to fabricate wire cloth parts, filters, and strainers.
- When you call, you’ll speak with a “live” person, not a machine – (we also have voice mail for those who prefer it).
- Contact Newark Wire Cloth for your next fabricated wire cloth part!

## Quoting your fabricated part requirement?

Try and provide us with as much information as possible when submitting an inquiry. A drawing is best. A complete description helps. Working together, we will generate a meaningful quotation.

### Here’s what we need from you:

- Materials of Construction
- Rough Dimensional Sketch...or engineering drawing of the part or assembly
- Construction Details...types of seams, type of welding, support layers, etc.
- Mesh Specification...mesh count, wire diameter, and opening size (or if this is not available) the particle size to be retained.
- Quantity

Market Grade Wire Cloth						
Mesh Count Per Inch	Diameter of Wire		Width of Opening		Micron Size	Open Area Percent
	Inches	mm	Inches	mm		
2	.063	1.60	.437	11.100	11100.0	76.4
3	.054	1.372	.279	7.095	7095.0	70.2
4	.047	1.194	.203	5.156	5156.0	65.9
5	.041	1.041	.159	4.039	4039.0	63.2
6	.035	.889	.132	3.344	3344.0	62.4
8	.028	.711	.097	2.464	2464.0	60.2
10	.025	.635	.075	1.905	1905.0	56.3
12	.023	.584	.060	1.532	1532.0	52.4
14	.020	.508	.051	1.306	1306.0	51.8
16	.018	.457	.045	1.130	1130.0	50.7
18	.017	.432	.039	.979	979.0	48.2
20	.016	.406	.034	.864	864.0	46.2
24	.014	.356	.028	.703	703.0	44.1
30	.013	.330	.020	.516	516.0	37.2
35	.011	.279	.018	.446	446.0	37.8
40	.010	.254	.015	.381	381.0	36.0
50	.009	.229	.011	.279	279.0	30.3
60	.0075	.1905	.0092	.2328	233.0	30.3
70	.0065	.1651	.0078	.1978	198.0	29.7
80	.0055	.1397	.0070	.1778	178.0	31.4
100	.0045	.1143	.0055	.1397	140.0	30.3
120	.0037	.0940	.0046	.1177	118.0	30.9
150	.0026	.066	.0041	.1033	103.0	37.2
160	.0025	.0635	.0038	.0953	95.0	36.0
180	.0023	.0584	.0033	.0827	83.0	34.3
200	.0021	.0533	.0029	.0737	74.0	33.6
250	.0016	.0406	.0024	.0610	61.0	36.0
270	.0016	.0406	.0021	.0534	53.0	32.3
300	.0015	.0381	.0018	.0466	47.0	30.3
325	.0014	.0356	.0017	.0426	43.0	29.7
400	.0010	.0254	.0015	.0381	38.0	36.0
500	.0010	.0254	.0010	.0254	25.0	25.0
635	.0008	.0203	.0008	.0197	20.0	24.2

# ADDITIONAL PRODUCT CATALOGS



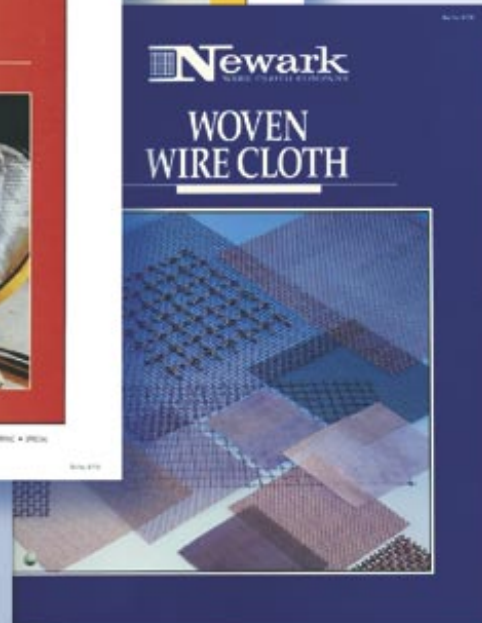
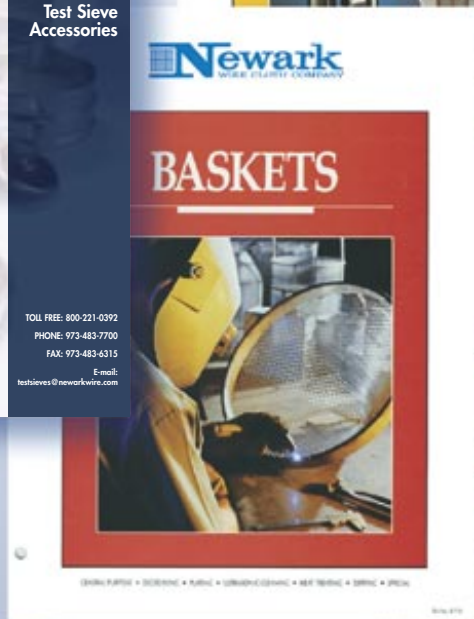
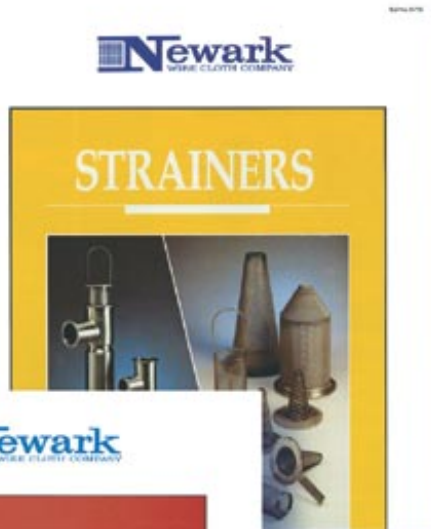
Preferred  
Quality  
Test Sieves

Standard  
Test Sieves

Air Jet  
Test Sieves

Test Sieve  
Accessories

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