

# Centerline®

## Premium Sieve Certifications

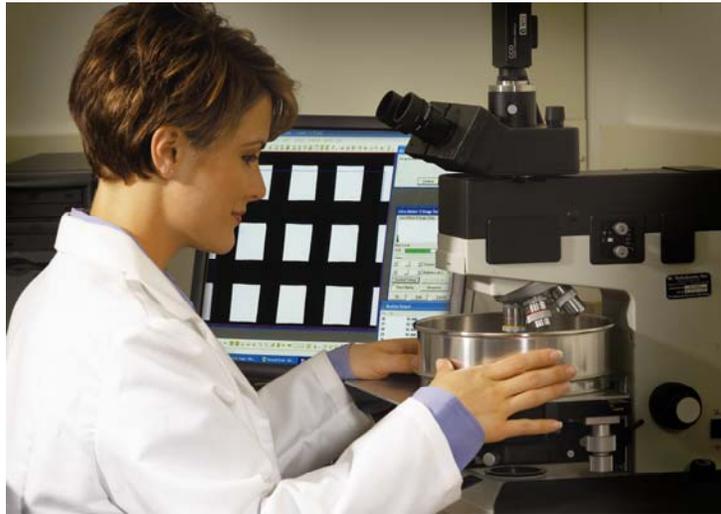
Accuracy and precision are vital components of any quality control program. Periodic certification of your test sieves ensures your compliance. Our Centerline® documents will become an integral part of your on going quality assurance program and will provide you with statistical data that is linked to each serialized sieve.

### Levels of Certification

- **Inspection** grade sieves are supplied with an Inspection Sieve Certificate containing inspection data that has a percentage of openings measured based on the ASTM E11-09 standards table providing you with a confidence level of 99% that your sieve is within the specifications.
- **Calibration** grade sieves are supplied with a Calibration Sieve Certificate containing data of at least twice as many apertures measured than inspection sieves, thereby providing an increased confidence level of 99.73%.

Advantech continues to provide sieve certification services in compliance with the older ASTM E11-04 standards. This allows your older sieves to be re-certified with the same level of compliance criteria as previously performed.

- **ASTM E11-04 Sieve Certificate** is supplied documentation which is based on the older standard guidelines. The E11-04 standard varies in that it has a fixed number of measured openings per sieve, in comparison with the E11-09 inspection and calibration grades which are based on a percentage of openings measured.



### Pricing

100C	<b>ASTM E11-04</b> Sieve Certificate	<b>\$75</b>
200C	<b>Inspection</b> Sieve Certificate ASTM E11-09	<b>\$85</b>
300C	<b>Calibration</b> Sieve Certificate ASTM E11-09	<b>\$135</b>

Prices effective January 1, 2011. This price list supercedes all previous price lists. All prices are FOB factory in New Berlin, WI U.S.A. and are subject to change without notice. *Certifications are ordered separately from sieves.*



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# Centerline® Premium Sieve Certifications

## Setting quality standards above everything else.

Our Premium Sieve Certifications are an add-on service when you purchase a new sieve or can be performed on your existing sieves.

By employing sophisticated optical technology - like the CENTERLINE® Measurement System - we ensure your test sieves comply with the ASTM E11 standards created by the American Standards Testing Materials International Committee. It's yet another method to elevate quality control and provides data that can become an integral part of your Quality Assurance Program.

## Adjusting to ever-changing needs.

Setting quality standards above everything else, Advantech Manufacturing has been at the forefront of the particle sizing industry. Depending on your particular application, the current ASTM E11 specification limits of your test sieve may be too broad. With the CENTERLINE® Measurement System, we've perfected the ability to evaluate exactly where your sieve lies in relation to the ASTM E11 standards.

## Quality Assurance.

By utilizing a sophisticated image analyzer traceable to the National Institute of Standards and Technology (NIST), your sieve is scanned for irregularities. Physical measurements are taken in a midpoint orientation of the wire in the X and y directions (warp and weft), and the wire diameters are measured to ensure compliance with the ASTM E11 specification. The data gathered is summarized in a comprehensive verification report that includes:

- Statistical data from the actual readings (x and y directions).
- An evaluation of the wire diameters.
- Detailed comparison of your sieve to the corresponding ASTM E11 grade specification.

Each sieve is serialized for accurate identification in your Quality Assurance Program.

## Re-certification like clockwork.

As with any precision lab instrument, periodic inspection and certification are recommended. Re-certification depends upon sieve usage, care and your internal quality system requirements. As a guideline, we recommend certifying your sieves on a semi-annual basis.

**Pre-certification** is performed when purchasing a new sieve.

**Re-certification** is performed on your existing sieve and must be sent to our facility for evaluation. Please contact us to verify that your sieve qualifies.



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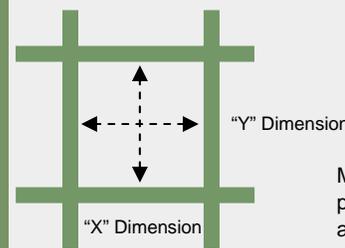
Thorough visual inspection for irregularities.

2



State-of-the-art image analyzer used to inspect openings and wire diameters.

3



Measurements taken along perpendicular lines intersecting at the centroid.

4



Sieve is serialized for accurate identification in your quality assurance system.

**Inspection Sieve Certificate**  
**Wire Cloth Size Verification Report**

Report Number: 12345-00010  
Customer: XYZ Company  
Selected Sieve Number: 12345  
Date: 8/10/10  
U.S. Standard Sieve Number: 200  
Technician: Jane Smith  
Change Measured: 50  
Wire Diameter Measured: 10

Statistics and Specification	X	Y	Pass/Fail
Mean (µm)	601.73	602.75	Pass/Fail
Standard Deviation (µm)	0.96	7.97	Pass/Fail
Minimum Reading (µm)	595.89	594.41	Pass/Fail
Maximum Reading (µm)	622.69	617.28	Pass/Fail
Range (µm)	36.81	26.78	Pass/Fail
Wire Diameter (µm)	3.163	3.163	Pass/Fail

Each sieve is serialized for accurate identification in your Quality Assurance Program.

**Raw Data Readings**

Opening Size (µm)	X	Y	Control	Yield (%)			
10	595.89	596.73	413	601.96	600.00	811	0.00
20	595.79	594.47	412	600.00	600.00	812	0.00
30	600.00	598.47	411	616.17	600.00	811	0.00
40	600.00	613.08	411	597.00	600.00	811	0.00
50	600.00	617.17	411	600.00	600.00	811	0.00
60	600.00	621.28	411	601.00	600.00	811	0.00
70	600.00	615.00	411	616.17	600.00	811	0.00
80	600.00	609.00	411	597.00	600.00	811	0.00
90	600.00	592.00	411	616.17	600.00	811	0.00
100	600.00	582.00	411	597.00	600.00	811	0.00
110	600.00	580.00	411	616.17	600.00	811	0.00
120	600.00	580.00	411	597.00	600.00	811	0.00
130	600.00	580.00	411	616.17	600.00	811	0.00
140	600.00	580.00	411	597.00	600.00	811	0.00
150	600.00	580.00	411	616.17	600.00	811	0.00
160	600.00	580.00	411	597.00	600.00	811	0.00
170	600.00	580.00	411	616.17	600.00	811	0.00
180	600.00	580.00	411	597.00	600.00	811	0.00
190	600.00	580.00	411	616.17	600.00	811	0.00
200	600.00	580.00	411	597.00	600.00	811	0.00
210	600.00	580.00	411	616.17	600.00	811	0.00
220	600.00	580.00	411	597.00	600.00	811	0.00
230	600.00	580.00	411	616.17	600.00	811	0.00
240	600.00	580.00	411	597.00	600.00	811	0.00
250	600.00	580.00	411	616.17	600.00	811	0.00
260	600.00	580.00	411	597.00	600.00	811	0.00
270	600.00	580.00	411	616.17	600.00	811	0.00
280	600.00	580.00	411	597.00	600.00	811	0.00
290	600.00	580.00	411	616.17	600.00	811	0.00
300	600.00	580.00	411	597.00	600.00	811	0.00
310	600.00	580.00	411	616.17	600.00	811	0.00
320	600.00	580.00	411	597.00	600.00	811	0.00
330	600.00	580.00	411	616.17	600.00	811	0.00
340	600.00	580.00	411	597.00	600.00	811	0.00
350	600.00	580.00	411	616.17	600.00	811	0.00
360	600.00	580.00	411	597.00	600.00	811	0.00
370	600.00	580.00	411	616.17	600.00	811	0.00
380	600.00	580.00	411	597.00	600.00	811	0.00
390	600.00	580.00	411	616.17	600.00	811	0.00
400	600.00	580.00	411	597.00	600.00	811	0.00

5 NIST traceable documents provided.

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