

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 **ASTM E11-04** Sieve Certificate
- 200C **Inspection** Sieve Certificate ASTM E11-09
- 300C **Calibration** Sieve Certificate ASTM E11-09

Prices effective January 1, 2012. 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.

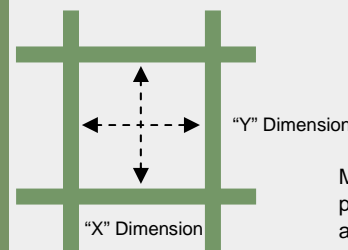
Re-certification is performed on your existing sieve and must be sent to our facility for evaluation. Please contact us to verify that your sieve qualifies.



Thorough visual inspection for irregularities.



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



Measurements taken along perpendicular lines intersecting at the centroid.



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

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

Report Number: 12345-001010
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	U.S. Standard
Mean (µm)	601.73	602.75	600
Standard Deviation (µm)	0.86	7.97	
Minimum Reading (µm)	595.69	594.41	
Maximum Reading (µm)	622.69	617.28	
Range (µm)	36.81	36.79	
Area (Square Inches)	3.163	3.169	

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

Raw Data Readings

Opening Size (µm)	X	Y	Count	U.S. Standard
10	599.83	598.73	413	600
20	599.79	594.47	412	600
30	600.26	594.47	412	600
40	600.89	613.08	441	600
50	600.76	617.17	440	600
60	600.88	621.28	440	600
70	601.08	613.08	412	600
80	600.76	609.00	440	600
90	601.81	592.65	387	600
100	601.81	592.65	387	600
110	601.81	592.65	387	600
120	601.81	592.65	387	600
130	601.81	592.65	387	600
140	601.81	592.65	387	600
150	601.81	592.65	387	600
160	601.81	592.65	387	600
170	601.81	592.65	387	600
180	601.81	592.65	387	600
190	601.81	592.65	387	600
200	601.81	592.65	387	600
210	601.81	592.65	387	600
220	601.81	592.65	387	600
230	601.81	592.65	387	600
240	601.81	592.65	387	600
250	601.81	592.65	387	600
260	601.81	592.65	387	600
270	601.81	592.65	387	600
280	601.81	592.65	387	600
290	601.81	592.65	387	600
300	601.81	592.65	387	600
310	601.81	592.65	387	600
320	601.81	592.65	387	600
330	601.81	592.65	387	600
340	601.81	592.65	387	600
350	601.81	592.65	387	600
360	601.81	592.65	387	600
370	601.81	592.65	387	600
380	601.81	592.65	387	600
390	601.81	592.65	387	600
400	601.81	592.65	387	600

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5 NIST traceable documents provided.