

Elcometer 122 Testex[®] Replica Tape User Guide

ABOUT TESTEX TAPE

Elcometer 122 Testex[®] Tape consists of a foam with a non-compressible backing. It is used to provide a permanent mould of the peak-to-valley profile of a surface. These instructions describe the use of the following grades of Elcometer 122 Testex Tape:

Part Number (Single Roll)	Description	Profile Range
E122----A1	Elcometer 122 Coarse Minus	12 to 25µm (0.5 to 1mil)
E122----B1	Elcometer 122 Coarse	20 to 64µm (0.8 to 2.5mils)
E122----C1	Elcometer 122 X-Coarse	38 to 115µm (1.5 to 4.5mils)
E122----F1	Elcometer 122 Coarse Plus	116 to 127µm (4.6 to 5.0mils)

Bulk quantities are available to purchase. For more information or to re-order, please contact Elcometer.

STANDARDS

Elcometer 122 Testex Tape can be used in accordance with the following International Standards:

ASTM D 4417-C, BS 7079-C5 (*superseded*), ISO 8503-5, NACE RP0287, US Navy NSI 009-32, US Navy PPI 63101-000

TAKING A READING

1. Tear off one section of tape from the roll, peel off the backing tape and retain the backing for future use.
2. Stick the tape on to the test surface, and rub the central portion using the swizzle stick provided, or the end of a pen, pencil or similar rounded object until dark spots appear. This gives a surface profile replica.
3. Using a micrometer such as the Elcometer 124 Foil Thickness Gauge, measure the thickness of the central portion of the tape replica and subtract 50µm (2mils) from the reading. This result is the peak-to-valley profile height. Write the value on the tape.
4. Replace the backing tape to preserve the imprinted profile for future reference.

The Elcometer 122 Coarse and X-Coarse tape grades have been redesigned to improve the performance in temperatures above 60°C (140°F).

This redesign has affected the overlap between the ranges of the two grades, resulting in a change in the measurement procedure.

If a measurement made with either tape grade is between 38 and 64µm (1.5 and 2.5mils), a second measurement should be taken at the same spot, with the **OTHER** grade.

If **BOTH** values are between 38 and 64µm (1.5 and 2.5mils) then the peak-to-valley height is the average of the two values. If the second value is outside this range, this should be used and the initial value discarded.

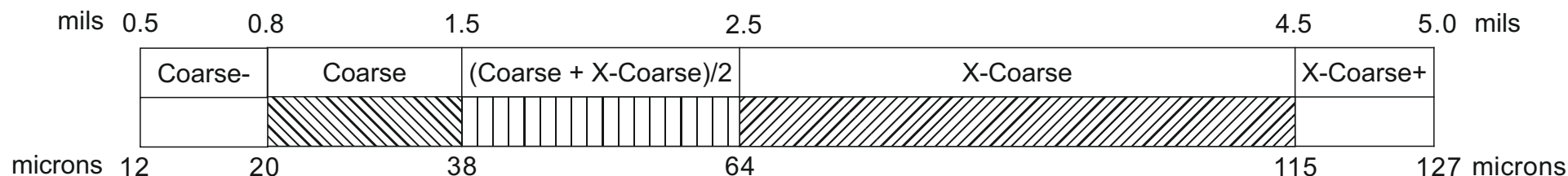


Figure 1. Tape Range Illustration

The shaded segments mark the primary range for Coarse and X-Coarse grades.

The effect of these changes is to make the Coarse and X-Coarse grade tape measurements more comparable with other means of determining profile over testex tape's primary range of 20 to 115µm (0.8 and 4.5mils)

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