

TEST METHOD: SATRA TM64

RESOTECH COMPRESSION SET-CONSTANT STRESS

MODEL NO. RESOTECH SCH-016



During walking, a shoe sole (or top-piece) is subjected to compression forces and deformation due to flexing with each step, which temporarily increases its area. By the completion of the step practically all of this increase in area is lost. However, if the soling or top-piece is slightly plastic they do not completely recover and some of the increase in area is retained. Such a soling, therefore, gradually increases in size during wear.

There is no reliable single laboratory test which predicts the spreading behavior of soles or top-pieces. Dynamic tests have been designed which apply repeated deformations as experienced during walking, but useful information can also be obtained from much simpler tests which use a single prolonged deformation. Such a test can either compress the sole with subsequent measurement of the permanent decrease in thickness, or stretch by measuring any permanent increase in length.

Application

The Thickness Of The Original Specimen Is Measured. The Specimen Is Then Placed Between Spacers And In The Compression Device. The Specimen Is Compressed To 25% Of Its Original Height, Using Spacers To Accurately Measure The Compression. Within Two Hours Of Assembly, The Compression Device Is Placed In An Oven At A Specified Temperature For The Suggested Time Periods. After Removing The Sample From The Oven, The Specimen Is Allowed To Cool Before Measuring The Final Thickness

Features:

- The structure is made of high-strength steel whose surface is with anti-rust plating process.
- The test platform is made of stainless steel, which is anti-rust and strong;
- The equipment is equipped with 9 stainless steel sample splints, which can test multiple sets of samples at the same time.
- High-performance spring, stable and long spring life.
- High precision dial indicator.

Specification

Model	RESOTECH SCH-016
Foot Pressure Diameter	7mm +-3mm
Test Pressure	Pressure Of Up To 22 ± 5 Kpa , $.1 \pm 0.2$ Mpa & 0.69 ± 0.02 Mpa.
Effective Stroke	Approx. 120mm
Standards	SATRA TM64 ;ASTM D395