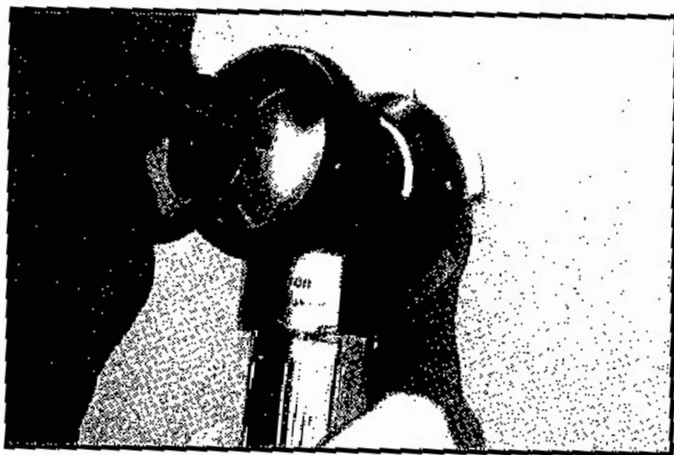
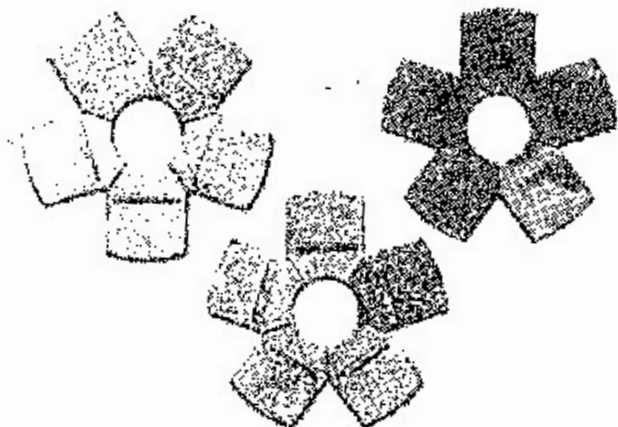


**KEANE-TATOR**  
**SURFACE PROFILE COMPARATOR**  
**for SAND BLAST**  
**cleaned surfaces**



A complete comparator kit consists of a reference disc, a 5x (illuminated) magnifier with magnetic disc holder, and a vinyl disc case.



## **OTHER COMPARATOR DISCS**

**GRIT/SLAG (G/S)** - For profile determination of substrates blast cleaned with metallic grit and other non-metallic abrasives.

**SHOT (SH)** - For profile determination of substrates blast cleaned steel shot.

**SAND (S)** - For profile determination of substrates blast cleaned sand.



Distributor:

**KTA-TATOR INC.**

145 Enterprise Drive  
Pittsburgh, PA 15275  
1-800-KTA-GAGE  
[www.ktagage.com](http://www.ktagage.com)

## TECHNICAL INFORMATION

**Anchor Pattern Measurement** - 50 peak-valley (PV) combinations were measured on 1 x 1¼" segments of sand blasted panels.

Measurements were made by the Steel Structures Painting Council at the Mellon Institute of Carnegie Mellon University, Pittsburgh, Pennsylvania, using a 250 power microscope with a vernier focusing attachment.

The microscope was first focused on the top of a peak, and then at the bottom of an adjacent valley. Readings were converted to mils (accurate to plus or minus 0.01 mils) and segments with average and median measurements most closely corresponding to the desired nominal anchor pattern depths were selected for the master disc.

**Measurement Results** - The following graphs provide peak-valley depth distributional information for each of the five reference segments.

## **HOW TO USE**

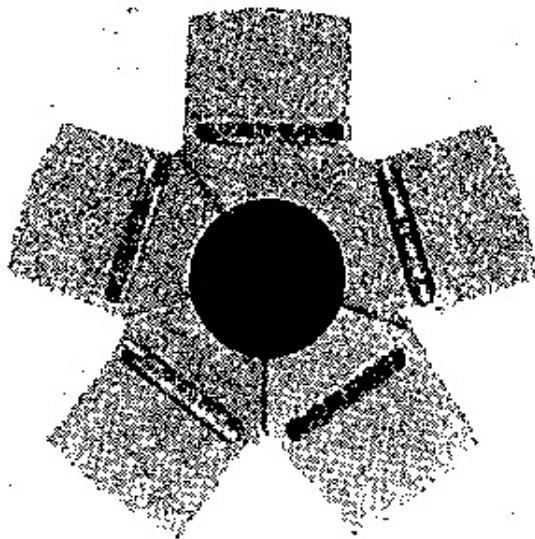
The comparator disc can be used as either a visual or tactile reference.

To use as a visual reference, center the disc on the bottom of the magnifier.

Place the magnifier (with disc attached) on the surface of the sand blasted steel and select the reference most closely approaching the roughness of the sand blast. Comparing a field sand blast in the "V" notch separating two reference segments may provide greater accuracy. Roughness may lie between two segments and be designated, for example 1.5S70.

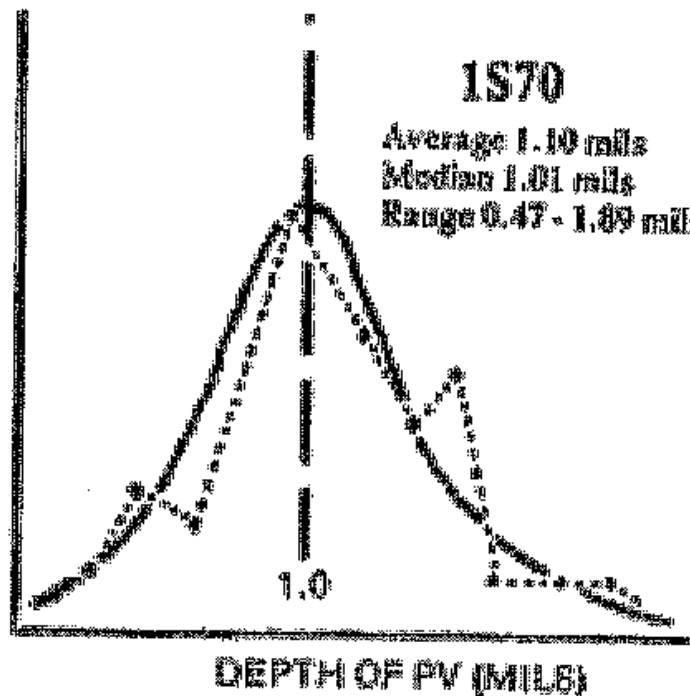
To use as a tactile reference, the roughness of a field sand blast as felt by one's fingertip, or a soft wooden stylus, can be compared with the roughness of a segment on the comparator disc.

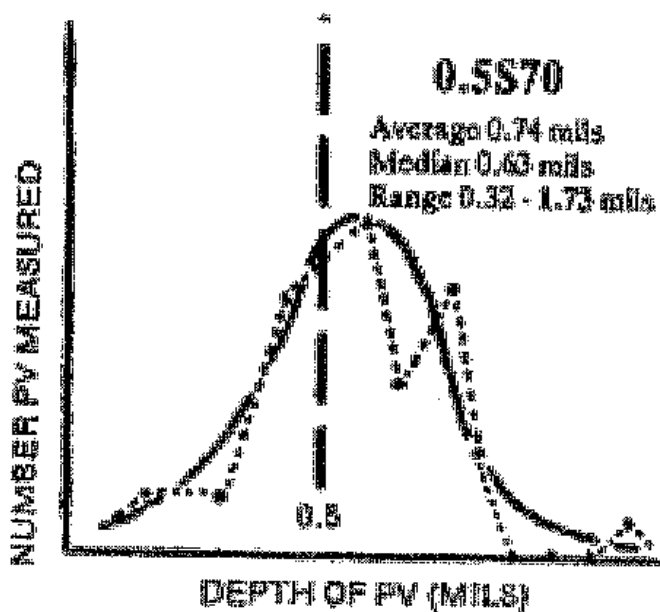
## REFERENCE DISC DESCRIPTION



The comparator disc is comprised of five sections, each with a different anchor pattern depth. Each section is marked first giving the nominal anchor pattern depth in mils (one mil = 25.4 microns); next a "GS" indicating a grit/slag (metallic grit) abrasive and a "76" indicating the year the master disc was made.

NUMBER PV MEASURED





NUMBER PV MEASURED

2870

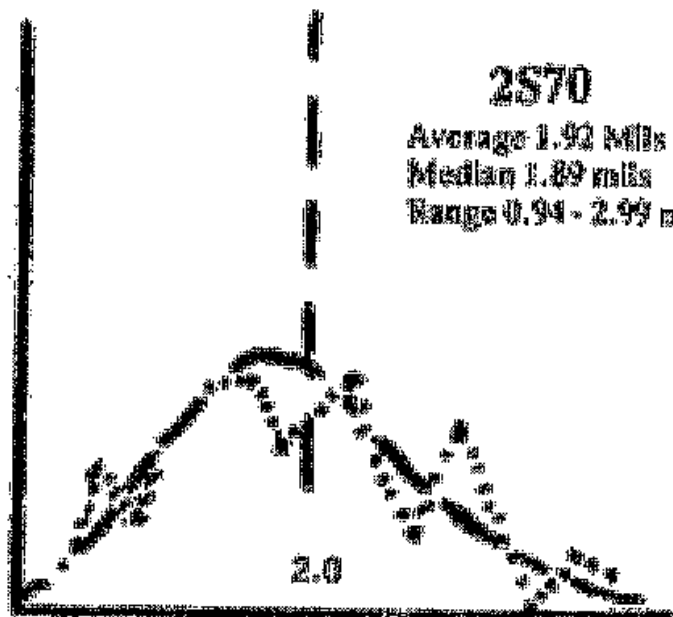
Average 1.92 MILs

Median 1.89 mils

Range 0.94 - 2.99 mil

2.0

DEPTH OF PV (MILS)





NUMBER PV MEASURED

3S70

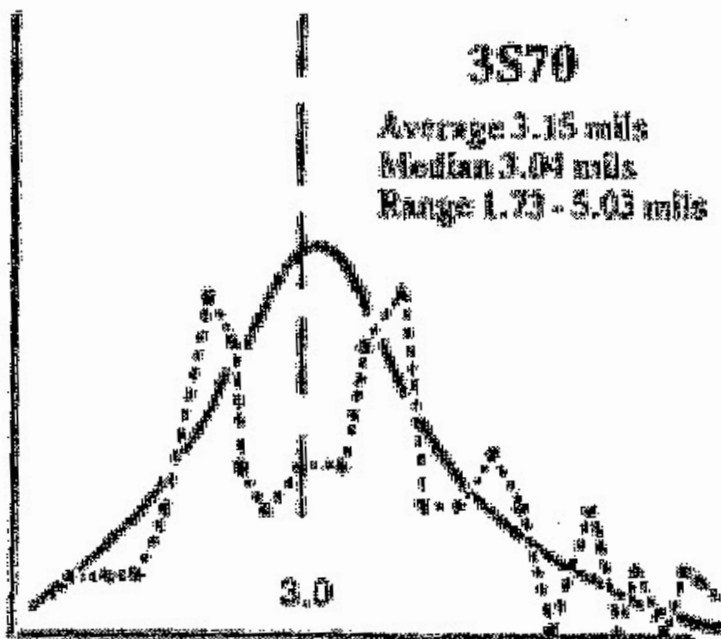
Average 3.15 mils

Median 3.04 mils

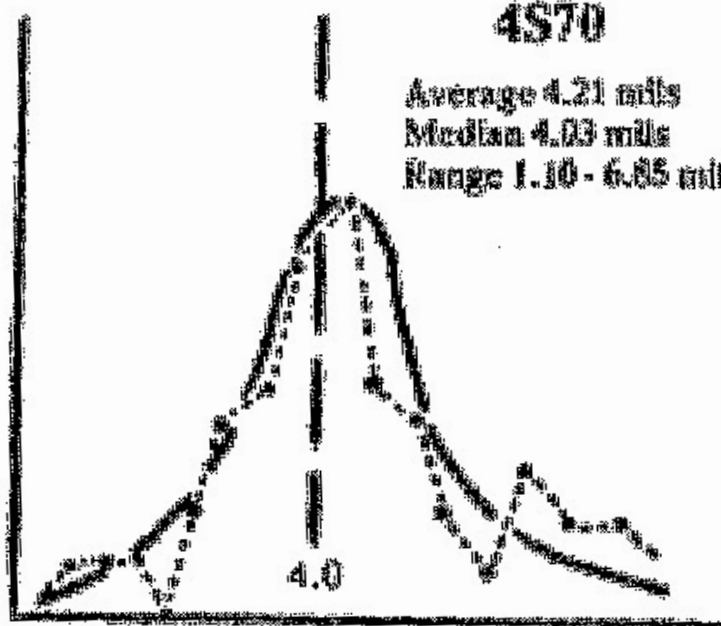
Range 1.73 - 5.03 mils

3.0

DEPTH OF PV (MILS)



NUMBER PV MEASURED



DEPTH OF PV (MILS)