

## HARDNESS TESTER/FILE SET

This new innovative file set provides a quick, inexpensive and simple way to check material hardness. No need to bring the material to be tested over to a hardness testing machine: Just bring this file set (6 files from 40 to 65 HRC) to the piece to be tested.

### Follow these simple steps to test your material:

1. Start with the **BLACK** handle file (65 HRC) and run the file over the test material. If it marks the material, the material is less than 65 HRC.
2. Try the **BLUE** handle (60 HRC): If it does not mark the material, the file is softer than the material. In this case the material is between 60 and 65 HRC.
3. If the **BLUE** handle (60 HRC) did mark the material, simply try the **GREEN** file (55 HRC), **LIGHT-GREEN** file (50 HRC), and continue until the material is not marked. The approximate hardness of the material is between the file that marks the material and the file that slips over the material.

(Standard)  $\phi 4.3 \times 175\%$

COLOR	INDICATION	FILE-HARDNESS	
RED	40 HRC	40-42 HRC	392-412 HV
YELLOW	45 HRC	45-47 HRC	446-471 HV
LIGHT-GREEN	50 HRC	50-52 HRC	513-544 HV
GREEN	55 HRC	55-57 HRC	595-633 HV
BLUE	60 HRC	60-62 HRC	697-746 HV
BLACK	65 HRC	64-66 HRC	800-865 HV

