

Fred V. Fowler Company, Inc.



Hardness Tester File Set

Miscellaneous Gaging
Hardness Testing



Fowler's Hardness Tester File Set is an inexpensive, easy-to-use method for determining material hardness by sliding the file across the object's surface. Six color coded files indicate hardness from 40 to 65 HRC. Conveniently packaged in a leather-like case with a velcro lined flap, the files are approximately .157" in diameter and 7" in length (4.30 x 175mm).

Testing Procedure:

- Run the Black file (65 HRC) over test material. If it marks the material, the material is less than 65 HRC.
- Try the Blue file (60 HRC). If it does not mark the material, it indicates that the file is softer than the material and is between 60 and 65 HRC.
- If the Blue file (60 HRC) marked the material, continue testing with the Green (55 HRC), Light-Green (50 HRC), etc. until the material is not marked. The approximate hardness of the material is between the file that marks the material and the file that slides over the material.
- Included chart also shows the appropriate Vickers Hardness (HV).

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

Order No.

52-760-000

Description

Hardness Tester File Set—a six color-coded system