

Directions for Rockwell Hardness Test

1. Chose the scale and indenter according to the material type.
2. Set the tester anvil according to the specimen shape.
3. Hold the indenter tightly into the tester head.
4. Place sample to be tested upon anvil.
5. Turn on the tester.
6. Set the major load according to the scale chosen.
7. Set the hardness scale from the control panel.
8. Place the sample on the anvil.
9. Turn wheel to elevate work into contact with test point and continue turning and forcing against indenter till the sign on the screen shows "Set" which means that the minor load is applied.
10. Push "Start" on the panel.
11. Wait until hear a beep sound and see a blink of "OK" sign. Note the hardness reading along with the scale, e.g. HRC 35.
12. If the sample has cylindrical surface, add round correction according to the "Round Correction" table in the lab, which is based on the hardness reading and the diameter of convex cylindrical surface.
13. Turn wheel to lower the anvil and take off the sample.
14. Take off the indenter and put it back.
15. Turn off the tester when work is done.

Precautions:

1. Be careful while handling the indenter. Do not hit it with any surface.
2. If tests are conducted on a single part make sure that indentations are each be a minimum of 3 indentation diameters apart.
3. Check the "Minimum Thickness Requirement" in the lab to ensure that your sample is sufficient thick for the scale chosen;