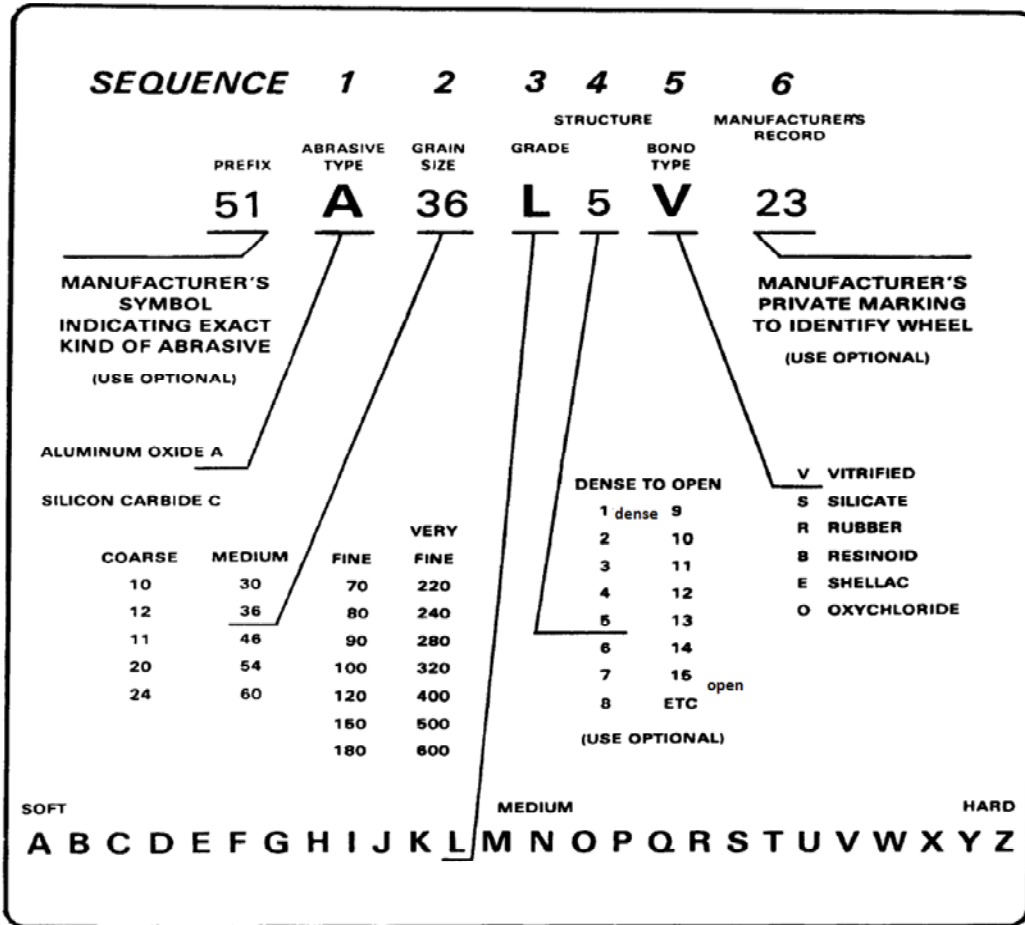


Abrasives Study Guide

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- _____ 1. Which of the following is not considered a natural abrasive?
- a. Sandstone
 - b. Emery
 - c. Diamond
 - d. Cubic Boron Nitride
- _____ 2. Which of the following is not true of diamond?
- a. Hardest known material
 - b. Used to sharpen carbide and ceramic cutting tools
 - c. Is chemically inert
 - d. May be made synthetically
- _____ 3. Which of the following is not true of Aluminum Oxide?
- a. Good general purpose abrasive
 - b. Most widely used artificial abrasive
 - c. Second only to diamond in hardness
 - d. Softer than silicon carbide
- _____ 4. Which of the following is not typical of cubic boron nitride (CBN)
- a. Second only to diamond in thermal resistance
 - b. Almost as hard as diamond
 - c. Good for use on iron, steel, and Ni alloys
 - d. Can be used at temperatures approaching 1400 deg. C.
- _____ 5. Abrasive machining is a combination of all of the following except which processes?
- a. Cutting
 - b. Tilling
 - c. Plowing
 - d. Rubbing
- _____ 6. Which abrasive machining process has a very large depth of cut and a slow feed?
- a. Snagging
 - b. Low-stress grinding
 - c. Truing
 - d. Creep feed grinding
- _____ 7. Which grinding wheel bonding material is fired in a kiln, porous, and strong?
- a. Vitrified bonds
 - b. Resinoid bonds
 - c. Silicate Bonds
 - d. Shellac Bonds



- _____ 8. An abrasive wheel has the following designation/specification: C 46 -J8V. What type of abrasive is this wheel composed of?
- | | |
|--------------------|--------------------|
| a. Aluminum oxide | c. Silicon carbide |
| b. Natural diamond | d. Carbon |
- _____ 9. Which wheel has the most coarse abrasive?
- | | |
|------------|---------------|
| a. A36-L5V | c. EA180-K10R |
| b. EA8-P4R | d. A220-M12 |
- _____ 10. Which wheel is the hardest?
- | | |
|------------|---------------|
| a. A36-L5V | c. EA180-K10R |
| b. EA8-P4R | d. A220-M12 |
- _____ 11. Which wheel has the most open structure?
- | | |
|------------|---------------|
| a. A36-L5V | c. EA180-K10R |
| b. EA8-P4R | d. A220-M12 |