

**COMPARISON OF HARDNESS VALUES**

| <u>Substance</u>             | <u>Knoop</u> | <u>Mohs</u> |
|------------------------------|--------------|-------------|
| Talc                         | ---          | 1           |
| Gypsum                       | 32           | 2           |
| Cadmium                      | 37           | -           |
| Silver                       | 60           | -           |
| Zinc                         | 119          | -           |
| Calcite                      | 135          | 3           |
| Plastic Grit                 | ---          | 3-4         |
| Walnut Shell                 | ---          | -           |
| Flourite                     | 163          | 4           |
| Corn Cob Grit                | ---          | -           |
| Copper                       | 163          | -           |
| Magnesia                     | 370          | -           |
| Apatite                      | 430          | 5           |
| Glass (Soda Lime)            | 540          | -           |
| Nickel                       | 557          | -           |
| Feldspar (Orthoclase)        | 560          | 6           |
| Tool Steel (Rockwell C 60.5) | 740          | -           |
| Bauxite                      | 755          | -           |
| Quartz                       | 820          | 7           |
| Chromium                     | 935          | -           |
| Zirconia                     | 1160         | -           |
| Beryllia                     | 1250         | -           |
| Topaz                        | 1340         | 8           |
| Garnet                       | 1360         | -           |
| Alumina Zirconia             | 1450         | -           |
| Zirconium Boride             | 1550         | -           |
| Titanium Nitride             | 1800         | 9           |
| Tungsten Carbide             | 1880         | -           |
| Tantalum Carbide             | 2000         | -           |
| Zirconium Carbide            | 2100         | -           |
| Alumina                      | 2100         | 9           |
| Beryllium Carbide            | 2410         | -           |
| Titanium Carbide             | 2470         | -           |
| Silicon Carbide              | 2480         | -           |
| Aluminum Boride              | 2500         | -           |
| Boron Carbide                | 2750         | -           |
| Diamond                      | 7000         | 10          |