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Operating Rules and Methods

All abrasive products must be used properly and in accordance with established safety codes. See American National Standards Institute (ANSI) B7.1 for the safety requirements for the use, care and protection of abrasive wheels.

Mounting

Wheels should be mounted on spindles or arbors of the correct diameter (nominal diameter +0, - .002 inches). Avoid forcing the wheel onto the spindle, proper fit is essential. Wheels should be mounted only on straight spindles (not tapered) and be supported by standard abrasive wheel flanges of equal size which cover at least 30% of the wheel diameter. The back flange should be keyed or secured to the shaft (except when mounted on a mandrel) and the outside flange nut should be tightened only enough to keep the wheel from slipping while it is in use.

Protective Guards and Shields

When operating an abrasive wheel the operator should be wearing safety goggles and face shields.

Wheel Dressing

The dresser or turning tool should be supported on a work-rest and held at a slight angle to the wheel face. Light cuts should be taken in a straight line across the high points of the wheel until the face is smooth and even. The wheel must not be run at full speed until any signs of imbalance have been removed. After the wheel has been shaped it should be run at full speed (not to exceed maximum safe speed) for 1 minute before work is applied. During this time the operator should stand to one side, away from the wheel.