



Grinding Wheel Safety Data Sheet

Grinding wheel is a widely used tool for roughing, semi-finishing and finishing grinding and grooving of metal or non-metallic workpieces on the outer circle, flat surface and various profiles.

Specification: 150X16X12.7mm 36Grit Grinding Wheel (6501070)
150X16X12.7mm 60Grit Grinding Wheel (6501054)
150X16X12.7mm 120Grit Grinding Wheel (6501053)

Max Speed: 35M/s (4456r/min)

Safe speed test:

Gradually increase the speed to 5793 /min, maintain for 30s, there should be no rupture.

Rupture speed test:

The test speed is gradually increased to 7575/min, there should be no rupture.

Composition of ceramic grinding wheel (percentage)

Al₂O₃ : 82%, K₂O : 0.4%, SiO₂ : 7%, Na₂O : 0.5%,
B₂O₃ : 5%, CaO : 0.5%, ZrO₂ : 0.7%, Fe₂O₃ : 0.07%

1. SiO₂, Al₂O₃, ZrO₂ are the main inorganic components of grinding wheels, they have high hardness, high wear resistance and good thermal stability, which play a key role in the grinding performance of the wheel.
2. Al₂O₃, SiO₂, B₂O₃, CaO, Na₂O, K₂O are important components of ceramic binder, which can firmly bond the abrasive grains together to ensure the overall strength and service life of the grinding wheel.