

Technical Tip #147 – Classification of Cutting Ceramics

1.0 Aluminum-oxide based cutting ceramics

1.1 Oxide ceramic (white)

1.1.1 For cast iron applications

1.2 Black ceramic

1.2.1 For cast iron applications

1.2.2 For hard-turning applications

1.3 Whisker reinforced

1.3.1 For cast iron applications

1.3.2 For hard-turning applications

1.3.3 For super-alloy applications

2.0 Non-oxide based cutting ceramics

2.1 Sialon

2.1.1 For cast iron applications

2.1.2 For super-alloy applications

2.2 Silicon nitride

2.2.1 For cast iron applications