

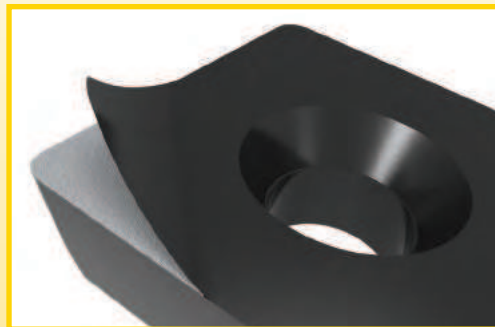


*Grade descriptions are listed by toughness to most wear resistant.*

### SP5419

Coating Type: PVD, TiAlN

The combination of a tough substrate with a new generation of TiAlN super nano coating, makes this new PVD grade virtually free of residual stress and extremely hard for unmatched performance. Used in Steel and Steel Alloys.



### X400

Coating Type: PVD, TiAlN, X-Grade™ Technology

A patented high performance premium carbide grade with a high level of toughness and high wear resistant, thin layer PVD coating. For use in demanding conditions of high metal removal rates or interrupted cuts. This specifically designed grade allows high levels of cutting pressure and offers increased security of the cutting edge. For use on Steel and Steel Alloys, Tool Steels and Hardened Steel (415 - 480 HBN).



### X500

Coating Type: CVD, TiN-TiC-TiN, X-Grade™ Technology

This high performance premium grade with a high level of shock resistance. This unique grade operates at the low to medium cutting speeds and is capable of high metal removal rates, while retaining a secure cutting edge. First choice for Stainless Steel and High Temperature Alloys as well as other materials where conditions are unstable.

