

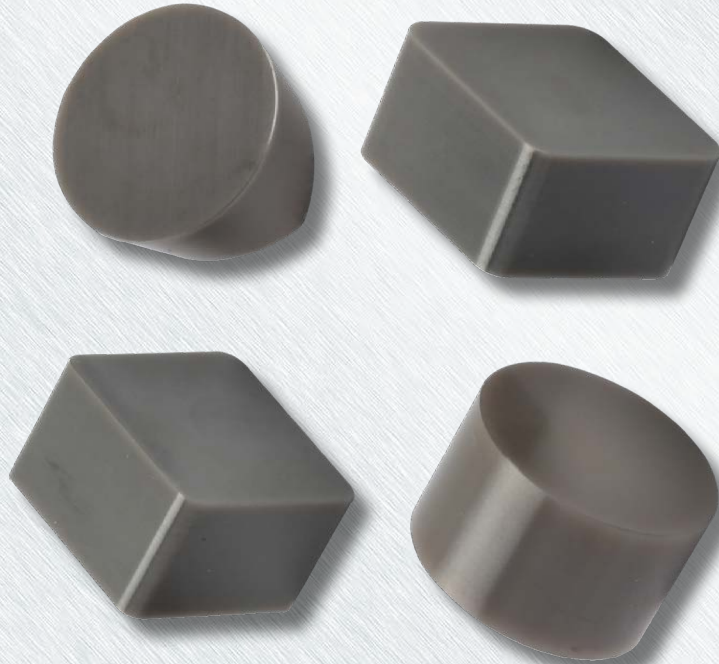


# TOTURN™

TURNING PRODUCTS

**Series Phase Out:**  
Grade AS20

**Series Phase In:**  
Grade TC3030 (Primary)  
Grade TC3020 (Secondary)



## Grade AS20 Phase Out Notice

In 2016, Ingersoll introduced new SiAlON-based ceramic grades TC3020 and TC3030 for turning high temperature alloys at elevated cutting speeds.

The performance of grades TC3020/TC3030 has surpassed that of Ingersoll's traditional SiN-based ceramic grade, AS20, with excellent results across a much broader range of high temp alloys in continuous to interrupted turning applications. As a result, grade AS20 is being discontinued effective immediately.

AS20 inserts will remain available until stock levels are depleted, at which time TC3030 will become the first-choice alternative as indicated on the next page. TC3020 will also be available for continuous cut applications at higher cutting speeds as a secondary option.







**TOTURN™ GRADE AS20 TO TC3030 TRANSITION**

| GRADE AS20 PHASE OUT |                  |      |                 |      | ➡➡➡➡➡ | GRADE TC3030 PHASE IN |                  |        |                 |        |
|----------------------|------------------|------|-----------------|------|-------|-----------------------|------------------|--------|-----------------|--------|
| Item Number          | ANSI Description |      | ISO Description |      |       | Item Number           | ANSI Description |        | ISO Description |        |
| 5701660              | CNG432E          | AS20 | CNGN120408E     | AS20 | ➡➡➡➡➡ | 6182029               | CNG432E          | TC3030 | CNGN120408E     | TC3030 |
| 5701749              | CNG433E          | AS20 | CNGN120412E     | AS20 | ➡➡➡➡➡ | 6182030               | CNG433E          | TC3030 | CNGN120412E     | TC3030 |
| 5701661              | CNG452E          | AS20 | CNGN120708E     | AS20 | ➡➡➡➡➡ | 6182031               | CNG452E          | TC3030 | CNGN120708E     | TC3030 |
| 5701725              | CNG454E          | AS20 | CNGN120716E     | AS20 | ➡➡➡➡➡ | 6153629               | CNG454T6         | TC3030 | CNGN120716T6    | TC3030 |
| 5701717              | CNGA432E         | AS20 | CNGA120408E     | AS20 | ➡➡➡➡➡ | 6168770               | CNGA432E         | TC3030 | CNGA120408E     | TC3030 |
| 5702439              | RCGX35T6         | AS20 | RCGX090700T6    | AS20 | ➡➡➡➡➡ | 6151102               | RCGX35T6         | TC3030 | RCGX090700T6    | TC3030 |
| 5702440              | RCGX45T6         | AS20 | RCGX120700T6    | AS20 | ➡➡➡➡➡ | 6182037               | RCGX45T6         | TC3030 | RCGX120700T6    | TC3030 |
| 5701640              | RNG43E           | AS20 | RNGN120400E     | AS20 | ➡➡➡➡➡ | 6306638               | RNG43E           | TC3030 | RNGN120400E     | TC3030 |
| 5701639              | RNG45E           | AS20 | RNGN120700E     | AS20 | ➡➡➡➡➡ | 6182042               | RNG45E           | TC3030 | RNGN120700E     | TC3030 |
| 5701681              | RNG45T6          | AS20 | RNGN120700T6    | AS20 | ➡➡➡➡➡ | 6158924               | RNG45T6          | TC3030 | RNGN120700T6    | TC3030 |
| 5701598              | RNG65E           | AS20 | RNGN190700E     | AS20 | ➡➡➡➡➡ | 6314576               | RNG65E           | TC3030 | RNGN190700E     | TC3030 |
| 5702048              | RNG65T6          | AS20 | RNGN190700T6    | AS20 | ➡➡➡➡➡ | 6186698               | RNG65T6          | TC3030 | RNGN190700T6    | TC3030 |
| 5702047              | RPGX45T6         | AS20 | RPGX120700T6    | AS20 | ➡➡➡➡➡ | 6158922               | RPGX45T6         | TC3030 | RPGX120700T6    | TC3030 |
| 5701721              | SNG434T6         | AS20 | SNGN120416T6    | AS20 | ➡➡➡➡➡ | 6157420               | SNGN434T6        | TC3030 | SNGN120416T6    | TC3030 |