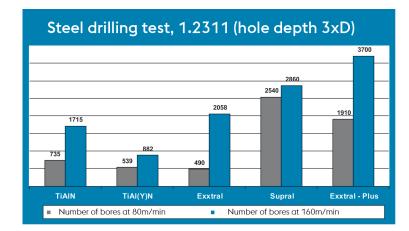
# eifeler

# EXXTRAL®-PLUS

**AITiN multilayer coating** 

## **APPLICATIONS**

| Cutting                 | Because of its multilayer structure,<br>EXXTRAL®-plus is especially recom-<br>mended for greater coating thickness-<br>es, e.g. for drilling. Resistance towards<br>corrosion is also improved thanks to<br>the greater proportion of chromium. |
|-------------------------|---|
| Punching<br>and forming | However, EXXTRAL®-plus has also<br>proven itself in other fields: cold and<br>semi-hot forming of steel materials,<br>cutting of thicker sheet steel and the<br>working of aluminium sheet material.  |



Internal cooling

Lubricant pressure

(yes/no)

Machine

n (min-1)

vf (m/min)

(bar)

Yes

40

DMC 65V

3,744 / 7,489

524 / 1048

#### **PRODUCT FEATURES**

- » Especially smooth and dense
- » High resistance towards oxidation (800°C)
- » High hot hardness
- » Enhanced toughness
- » Chemical resistance
- » Low thermal conductivity coefficient
- » Higher cutting speeds
- » Longer service life
- » Improved surface quality
- » Dry machining
- » No cooling lubricant required

# COATING PROPERTIES

| Hardness                                 | 3,300 ± 300 HV    |
|--|-------------------|
| Max. application temperature             | 800 °C / 1,470 °F |
| Coefficient of friction<br>against steel | 0.7               |
| Coating thicknesses                      | 2 - 5 µm          |
| Colour                                   | anthracite        |

## MATERIAL

tolerance

**USAGE/TOOL DATA** 

Vc (m/min)

f (mm)

D (mm)

Concentricity

ар

| Material         | 1.2311                  |  |  |
|------------------|-------------------------|--|--|
| Size (LxDxH)     | 405x200x50              |  |  |
| Target Rm        | 1,000 N/mm <sup>2</sup> |  |  |
| Actual Rm        | 980 N/mm <sup>2</sup>   |  |  |
| Pre-machining    | milled                  |  |  |
| Cooling emulsion | Avilub approx. 10%      |  |  |
| - · · ·          |                         |  |  |

80/160

0.140

20.4

6.8

under

0.01



voestalpine eifeler Coatings EDRO Engineering, Inc. 20492 Carrey Road Walnut, California 91789 Tel: 909-594-5751 coatings@edro.com