



# AluCon®

## for Aluminum, Titanium and Non-ferrous Metals

The coating material AluCon® is a TiB<sub>2</sub>-based HiPIMS coating material. It forms a unique combination of nanocrystalline, extremely dense and at the same time smooth coating material with maximum coating adhesion. It effectively prevents built-up edges and has a hardness of up to 5,000 HV<sub>0.05</sub>. The guarantor for optimum machining results in non-ferrous metals, even at high operating temperatures.

## Application example

### Against built-up edges with maximum coating adhesion

Material: **TiAl6V4**

Tool: **inserts with x-geometry**

$v_c = 100 \text{ m/min}$

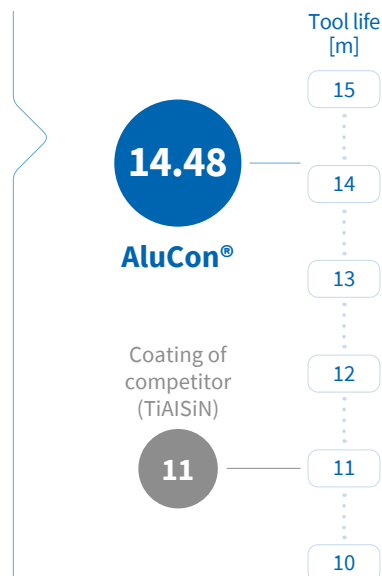
$f_z = 0.06 \text{ mm}$

$a_e = 15.28 \text{ mm}$

$a_p = 0.8 \text{ mm}$

$v_b = 0.34$

Cooling: **oil**



## Technical data

Coating technology:

**HiPIMS**

Composition of the coating material:

**TiB<sub>2</sub>-based**

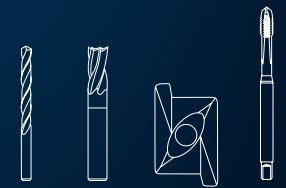
Color:

**Silver**

Max. operating temperature:

**1,100°C**

## Available coating thicknesses



≈ 2 μm



## Talk to an expert

+49 2405 44 70 123

coatingservice@cemecon.de