

# Aluminum Alloy Solid Carbide End Mill 3F

This 3F aluminum end mill is made from solid carbide. It is designed for machining aluminum alloys, offering high accuracy and a smooth surface finish.



## Product Overview



### High-Performance Aluminum Milling

This 3-flute solid carbide end mill is specifically engineered for high-speed machining of aluminum alloys, ensuring unobstructed scrap discharge and superior surface finishes. Manufactured using precision CNC technology, it offers high accuracy and exceptional tool life for demanding industrial applications. The tool is available in both non-coated and TiAlN-coated versions to suit various profiling, slotting, and pocketing requirements.

## Technical Specifications



### Standard Dimensions

Cutting Diameter (d1)	Flute Length (l2)	Overall Length (l1)	Shank Diameter (d2)
4	10	50	4
6	18	50	6
8	22	60	8
10	28	75	10
12	30	75	12
14	40	100	14
16	42	100	16
20	50	100	20

Number of Flutes

3

Helix Angle

30 °

Material

Solid Tungsten Carbide

Available Coatings

Non-coating, TiAlN, ALTiN, Nano-coating

## Performance Features



### Key Benefits

- Unobstructed scrap and chip discharge
- High precision ground cutting edges
- Superior surface finish quality
- High-speed milling compatibility
- Extended tool life in aluminum alloys

## Material Properties

### Raw Material Grades

Grade	Co (%)	Hardness (HRA)	Density (g/cm <sup>3</sup> )
FR15	10	92.2	14.4
FR25	12	92.5	14.1
TH10	10	91.8	14.45
SP35	13	92.8	14.05
TR10	9	93.7	14.3
ZK10	6	92.5	14.85

## Logistics & Packaging

### Shipping Dimensions

**0.45 KG**

Gross Weight

### Single Package Size

36 x 15 x 22 cm

## Custom Services

### Service Options

OEM Available • Custom Design • Non-standard Sizes • Direct Factory Sale