

## Bearing Steels

## Ovako 803F (100CR6) Bar

Datasheet Updated  
05 August 2021

### SPECIFICATIONS

|            |            |
|------------|------------|
| Commercial | 100CR6     |
| Aerospace  | Ovako 803F |

A through hardening bearing steel intended for rolling contact and other high fatigued applications.

### CHEMICAL COMPOSITION

#### Ovako 803F

| Element        | % Present   |
|----------------|-------------|
| Carbon (C)     | 0.00 - 0.97 |
| Chromium (Cr)  | 0.00 - 1.50 |
| Manganese (Mn) | 0.00 - 0.35 |
| Silicon (Si)   | 0.00 - 0.27 |
| Sulphur (S)    | 0.00 - 0.02 |

### ALLOY DESIGNATIONS

- A732
- 100 C 6
- 100 Cr 6
- 2 S.135
- 52100
- 2258

### SUPPLIED FORMS

- Bar
- Rod

### APPLICATIONS

- Small and medium sized bearing components
- Machine components that require high tensile strength and high hardness

### CHARACTERISTICS

- High hardness
- High strength
- High cleanliness
- Properties to withstand high cycle, high stress fatigue

### MECHANICAL PROPERTIES

| Property            | Value  |
|---------------------|--------|
| Hardness Rockwell C | 60 HRC |

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