



Stainless steel Axal

Material

Material No. R300003

EN Symbol (short) CoCr20Ni16Mo7

AISI/SAE -

UNS R300003/R300008

ASTM B.S. Alloy Registered Works Label Standards -

Chemical Composition¹

C ≤ %	Si ≤ %	Mn ≤ %	P ≤ %	S ≤ %	Cr %	Mo %	Ni %	V
0.15	1,2 max.	2,0 max.	0,015 max.	0,015 max.	19,0-21	6,5-7,5	15-16	-
Nb	Ti	Al	Co %	Cu	N ≤ %	Fe		
_	_	_	39-41	_		Balance	_	_

• Thermal Characteristics

Axal hast he ability tob e used over a very wide range of temperatures, from 4.2K to about 500°C. Thanks to its Young modulus its very high yield strenght and its good fatigue strenght.

Special Characteristics

Temperature - Range:	Density kg/dm ³ :	Hardness HV
520°C	8.3	≤ 270

Welding Filler

Not commonly welded

Main fields of Application (depending of specific conditions of use)

Watch industry, medical

Description

Axal in an austenitic cobalt-based alloy. It'n No magnetic steel extremely resistant to corriosion and its behavior in inorganic acids is greatly superior to that af the best stainless steel