Titanium and alloys

July 2016 - rev.1.0

CoCr28Mo

ISO 5832-12
ASTM F1537

CHEMICAL COMPOSITION %

C%	Si%	Mn%	Cr%	Mo%	Ni%	Fe%	N%	Co%
Max	Max	Max	26,00	5,00	Max	Max	Max	balance
0,14	1,00	1,00	30,00	7,00	0,1	0,75	0,25	

USES AND APPLICATIONS

CoCr28Mo is a nonmagnetic Co, Cr and Mo content for implant. Good corrosion resistance and good fatigue and wear resistance. Compared to standard qualities, the percentage of Nickel is less than 0.1% to ensure better biocompatibility. This alloy is especially applicable for medical implants (endoprothesis and osteosynthesis), wherever high mechanical stress is expected. It is widely used in micromechanics, where hardness, toughness, ductility and corrosion resistance are required.

EXECUTIONS

Diameters	≥ 2,00mm
Tolerances	ISO h8 (up to h5)
Delivery conditions	in cold drawn or ground 3m bars and Coils

MECHANICAL PROPERTIES

Tensile Strength	≥ 1000 N/mm^2
Proof stress	≥ 700 N/mm^2
Elongations	≥ 12%
Hardness	≥ 28 HRc
Heat treatment	tempered: 1075 - 1150°C, air cooling
Cutting speed	10 - 15 m/min

OTHER INFORMATION

Diagrams, treatment tabs or other informations on request.

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