OSIMPLANT
Spine Restoration Technology

Date : 03.09.2025

To Whom It May Concern,

The cobalt-chromium rods included in the OSI Spinal Fixation System and PORTHOS Posterior Cervical Spinal Fixation System product portfolio are manufactured in compliance with the following international standard:

ISO 5832-12 – Implants for surgery — Metallic materials — Part 12: Wrought cobalt-chromium-molybdenum alloy

This standard specifies the chemical composition and mechanical properties of wrought cobalt-chromium-molybdenum alloys used in surgical implant applications.

Chemical Composition (according to ISO 5832-12):

Element	**Percentage (%)**
Chromium (Cr)	26.0 - 30.0
Molybdenum (Mo)	5.0 - 7.0
Manganese (Mn)	≤ 1.0
Iron (Fe)	≤ 0.75
Nickel (Ni)	≤ 0.1
Carbon (C)	Low Carbon: ≤ 0.14 High Carbon: 0.15 – 0.35
Silicon (Si)	≤ 1.0
Nitrogen (N)	≤ 0.25
Cobalt (Co)	64,0 – 64,5

The composition percentages mentioned above are within the limits defined by the ISO 5832-12 standard, and the raw material used is procured and processed in accordance with this standard. Upon request, the manufacturer's certificate / sample raw material analysis report can also be provided.

Best Regards,

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