

Specifications:

AWS A5.21/ ASME SFA 5.21
 AWS Class ERCoCr-A
 AWS A5.13/ ASME SFA 5.13

Properties:

Tensile Strength: 850 MPa (Castings)
Yield Strength: 700 MPa (Castings)
Elongation: <1 % (Castings)
Hardness: 36-45 HRC

Description:

Stellite™ 6 is a cobalt base alloy that consists of complex carbides in an alloy matrix. It is a wear resistant alloy that has good all-around performance. It is also resistant to galling and corrosion and can retain these properties at high temperatures. It is resistant to different forms of mechanical and chemical degradation over a wide temperature range, and can retain a level of hardness up to 930°F. It corrodes primarily by a pitting mechanism and not by general mass loss in seawater and chloride solutions. Its mass loss in sea water is below 0.05mm per year at 22°C.

Available in multiple sizes and forms.

Chemical Composition (Wt%)

Co	Cr	W	C	Others
BAL	27-32	4-6	0.9-1.4	Fe, Si, Ni, Mo, Mn

Note: Single values are maximum unless otherwise noted.

Maintaining a proper welding procedure, including pre-heat and interpass temperatures, may be critical depending on the type and thickness of material being welded.

CAUTION: Consumers should be thoroughly familiar with the safety precautions on the warning label posted in each shipment and in the American National Standards A49.1, "Safety in Welding and Cutting," published by the American Welding Society, 8669 NW 36 Street, #130, Miami, FL 33126: OSHA Safety and Health Standards 29 CFR 1910 is available from the U.S. Department of Labor, Washington, D.C. 20210.