CEWELD®

Dur 6 MoW

CATEGORY	Metal Powders
TYPE	Gas atomized spherical Cobalt-Chromium-Molybdenum-Tungsten alloy.
APPLICATIONS	Overlay welding on wear parts that need to outlast new parts where high temperatures combined with corrosion and wear resistance is required. 3D printing of parts for medical applications according class IIa medical device in accordance with annex IX rule 8 of the MDD 93/42/EEC. Composition corresponds to “type 4” CoCr dental material according to EN ISO 22674.
PROPERTIES	Dur 6 Mo is free of Ni, Be. and Cadmium according EN ISO 22674. The alloy offers extreme low friction properties combined with extreme corrosion resistance and excellent wear properties against scalling, abrasion and extreme pressure loads.
CLASSIFICATION	AWS NA EN ISO 22674
APPROVALS	CE approved
WELDING POSITIONS:	

MAIN CHEMICAL COMPOSITION

Co	Cr	Mo	W
*	*	*	*

MATERIAL PROPERTIES (EN ISO 22674)

Heat Treatment	$R_{P0,2}$ (N/mm^2) (N/mm^2)	Rm (N/mm^2)	A5 (%)	Impact Energy (J) ISO-V -20°C	Density g/cm3	Melting range °C	Hardness HV 10
SR: 1hr/750°C	820	1350	3-5		8.5	1405-1460	420

SR: stress relieved

POWDER SIZE RANGE

Distribution grain size				
Size µm*	Size µm*	Size µm*	Size µm*	Size µm*
180-75	150-63	125-53	63-15	45-10

REDRYING TEMPERATURE	not required