



Western Foundries

Material Data Sheet

WCD4

Western Foundries offers castings in CD4 and our proprietary WCD4. Both alloys are duplex stainless steels offering superior mechanical properties to 300 series stainless steels with similar corrosion properties.

Western Foundries CD4MCu material is similar to specification ASTM A351 CD4MCu. The Western Foundries WCD4 (registered trade name) is specially processed to achieve higher mechanical properties and corrosion resistance.

Western Foundries WCD4 is expected to offer increased life performance in applications where a combination of corrosion and erosion type wear is found.

Mechanical Properties

Material Specification	Hardness HBN (typical)	Tensile Strength (psi)	Yield Strength (psi)	Elongation
CD4MCu	245-265	Min 100,000	Min 70,000	Min 16%
WCD4	320-350	Min 137,000	Min 88,000	Min 16%

Chemical Composition (weight %)

C	.04% max	P	0.04 max
Cr	24.5-26.5	S	0.04 max
Ni	4.75-6.00	Si	1.0 max
Mo	1.75-2.25	Mn	1.0 max
Cu	2.75-3.25	Fe	balance