

Westgate

Alloy B2

(UNS N10001) W. Nr. 2.4617

Chemical composition	Ni	Mo	Fe	Cr	Co	Mn	Si	P	S	C
% Present (Max)	Bal	26.0 -30. 0	2.00	1.00	1.00	1.00	0.10	0.0 40	0.03 0	0.02

Alloy B-2 is a solid solution strengthened, nickel-molybdenum alloy typically used in extreme reducing conditions. Alloy B-2 has significantly lower carbon, silicon and iron compared to the predecessor, Alloy B . Compared to alloy B, alloy B-2 is less susceptible to weld zone corrosion in the as-welded condition. Controlling other alloying elements such as iron and chromium resolved potential issues with forming and shaping. Stringent chemistry control in the production of alloy B-2 allows the alloy to be used in the welded condition, and it is less susceptible to stress corrosion cracking under many conditions. Care must be taken in selecting the right alloy for the desired application. Alloy B-2 should not be used at temperatures between 1000°F and 1600°F as the alloy forms secondary phases that could decrease the ductility of the material.

Note: Values are in accordance with EN 10088 specifications. Actual mill certs available upon request.

