

# Westgate

## C-276

(UNS N10276) W. Nr. 2.4819

| Chemical composition | Ni  | Mo    | Cr        | Fe  | Tu      | Co  | Mn | C    | V    | P    | S    | Si   |
|----------------------|-----|-------|-----------|-----|---------|-----|----|------|------|------|------|------|
| % Present (Max)      | Bal | 15-17 | 14.5-16.5 | 4-7 | 3.0-4.5 | 2.5 | 1  | 0.01 | 0.35 | 0.04 | 0.03 | 0.08 |

Alloy C-276 is an austenitic nickel-molybdenum chromium alloy with a small addition of tungsten. It is one of the premier corrosion resistant materials available for process industries. Alloy C-276 has excellent corrosion resistance in both oxidizing and reducing environments. The combination of the high molybdenum and chromium content, along with the addition of tungsten, make Alloy C-276 highly resistant to chloride stress corrosion cracking, pitting, crevice corrosion and general corrosion. Alloy C-276 can operate in oxidizing atmospheres up to 1900°F (1038°C), however, the alloy lacks sufficient chromium content to operate successfully in the most strongly oxidizing environments like hot, concentrated nitric acid. The low carbon content of Alloy C-276 enables the alloy to be utilized in the as-welded condition. It cannot be hardened by heat treatment, but can be hardened by cold working. The alloy has a higher work-hardening rate than the austenitic stainless steels which should be taken into consideration. Alloy C-276 can be easily welded and processed utilizing standard shop fabrication practices for austenitic stainless steels and nickel based alloys.

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



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