Allo C-276 (UNS N10276) i an a eni ic nickel-mol bden m- chromi m allo i h a mall addi ion of ng en. I i one of he premier corro ion re i an ma erial a ailable for proce ind rie Allo C-276 ha e cellen corro ion re i ance in bo h o idi ing and red cing en ironmen .

The combina ion of he high mol bden m and chromi m con en , along i h he addi ion of ng en, make Allo C-276 highl re i an o chloride re corro ion cracking, pi ing, cre ice corro ion and general corro ion.

Allo C-276 can opera e in o idi ing a mo phere p o 1900 F (1038 C), ho e er, he allo lack fzcien chromi m con en o opera e cce f ll in he mo rongl o idi ing en ironmen like ho , concen ra ed ni ric acid.

The lo carbon con en of Allo C-276 enable he allo o be ill ed in he a elded condi ion. I canno be hardened b hea rea men , b can be hardened b cold orking. The allo ha a higher

M P

68 F (20 C)

C R

Allo C-276 i one of he premier corro ion re i an ma erial ha perform e cep ionall ell in bo h o idi ing and red cing en ironmen l re i chloride re corro ion cracking, pi ing, cre ice and general corro ion. The allo i al o re i an o carbide precipi a ion d ring elding enabling i o be ili ed in he a elded condi ion.

In chemical proce ing applica ion , he allo ha e cep ional re i ance o lf ric, h drochloric, formic, ace ic and pho phoric acid Allo C-276 perform ell in en ironmen con aining acid chloride , ol en and ace ic anh dride, The allo i one of he fe grade ha i h and e chlorine ga , h pochlori e and chlorine dio ide ol ion

Allo C-276 i highl re i an o concen ra ed ol ion of o idi ing al incl ding iron and copper chloride. l al o perform ell in ea a er, e peciall nder cre ice condi ion here o her freq en l ed allo ch a ainle eel, Allo 400 and Allo 625 fail.

The opera ing condi ion of e ga de lf ri a ion em offer a challenging en ironmen for corro ion re i an ma erial Scr bber liq or and ga conden a e of en con ain chloride Allo C-276 ha been ho n o i h and higher chloride le el han o her grade before he on e of locali ed corro ion in he e em

Allo C-276 i ed e en i el in he reco er and proce ing of o r na ral ga hich con ain h drogen lzde along i h carbon dio ide and chloride Carbon and allo eel canno i h and hi corro i e en ironmen . The are biec o fail re b lzde re cracking or re corro ion cracking. The rich chemi r of Allo C-276 make i re i an o o r en ironmen e en a high empera re in deep ell

F D

Allo C-276 can be ea il elded and proce ed ili ing andard hop fabrica ion prac ice for a eni ic ainle eel and nickel ba ed allo .

H F

The ho - orking empera re range for Allo C-276 i 1600 2250 F (870 1230 C). The allo ho ld be a er q enched af er ho orking. Hea rea men i recommended af er ho orking o en re ma im m corro ion re i ance.

C F

Allo C-276 ho ld be in he annealed condi ion for cold orking. The allo ha a higher ork-hardening ra e han he a eni ic ainle eel hich ho ld be aken in o con idera ion. An in-proce anneal ma be nece ar i h a high degree of cold orking. If he allo ndergoe grea er han 15% deforma ion d ring cold orking, a ol ion anneal ma be nece ar .

Allo C-276 can be readil elded b mo andard proce e incl ding GTAW (TIG), PLASMA, GMAW (MIG/MAG) and SMAW (MMA). A po eld hea rea men i no nece ar . Br hing i h a ainle eel ire br h af er elding ill remo e he hea in and prod ce a rface area ha doe no req ire addi ional pickling.

M

Allo C-276 ho ld preferabl be machined in he annealed condi ion. Since Allo C-276 i prone o ork hardening, onl lo c ing peed ho ld be ed and he c ing ool ho ld be engaged a all ime . Adeq a e c dep h i nece ar o a re a oiding con ac i h he pre io l formed ork-hardened one.