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304

Influence of Chloride Content and Temperature on Stress Corrosion Cracking of 304 Stainless Steel in Sodium Chloride Solution

(Makot	to Masuo)	(Yutaka Ono)			
:					
304	TIG				
Cl(-)	10 21000	0ppmCl(-) 40 80			
	TIG		80	21000ppm C	l(-)
				90	1000
21000ppm Cl(-)			80	1000

Synopsis:

The occurrence of stress corrosion cracking (SSC)in TIG butt-welded specimens and spot-welded specimens of Type 304 stainless steel was investigated by the use of sodium chloride solutions containing 10,100,1000 and 21000ppm Cl(-) at 40,60 and 80 . The

食塩水中の304ステンレス鋼の応力腐食割れに およぼす塩素イオン濃度と温度の影響

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Yutaka Ono

増 尾

Makoto Masuo

Synopsis: The occurrence of stress corrosion cracking (SCC) in TIG butt-welded aneriment and snot-welded speciment 26. Two 30A stainless steel was investigated by the use of andium obligated solutions containing 10, 100, 1000 and 21,000 ppm Cl. at 40, 60 and 80°C. The extent of corrosion activity during test period was examined by the approximated solutions and 10 and		
and 21 000 ppm Cl. at 40, 60 and 80°C. The extent of corrosion activity during test period was examined by		Synopsis:
and 21 000 ppm Cl ⁻ at 40, 60 and 80°C. The extent of corrosion activity during test period was examined by		The occurrence of stress corrosion cracking (SCC) in TIG butt-welded_specimens and snot-welded specimens
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で重要である。しかし、低濃度における応力腐食 割れの実験室的な再現が難しいことから、これら のことは主に事例の解析を中心として調べられて きている。このような低濃度塩化物環境における 大学の公別とのなりには、全人を表しまして、上

Table 1 Chemical composition of Type 304 stainless steel specimens

C Si Mn P S Cu Ni Cr Mo

(95)

溶接試験片のように隙間と残留応力のある試験片を用いると、304 鏑では100°C以下の低濃度食塩を由て大窓具に向力原金割れた再用できることを

(A)= -(A)

(A)