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Development of High Strength Martensitic Stainless OCTG with Superior Corrosion Resistance

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API-13Cr		SSC			C, Ni	Mo
HP13Cr			C	Ni		
150	5MF	Pa			SSC	
Mo	13Cr	SSC				
Mo					13Cr	

## Synopsis:

A new 13Cr martensitic stainless steel with excellent resistance to CO2 corrosion and good resistance to SSC has been developed and its application limit in oil and gas environment of the new steel has been clarified. The CO2 corrosion rate of the 13Cr steel is reduced with a decrease in C content and an increase in Ni content. The critical CO2 partial pressure for this new steel is 5MPa at 150 . The SSC resistance increases with an increase in Mo content. The SSC resistance of 13Cr steel depends on hydrogen

## マルテンサイト系ステンレス鋼管の開発\*

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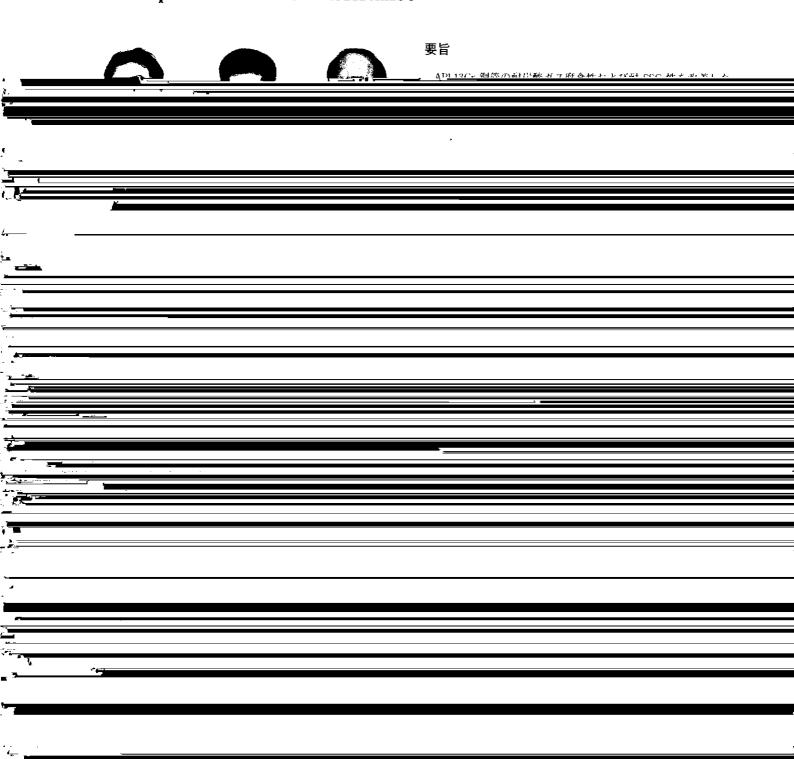


Table 4 Chemical composition of steels tested

(mass %)

Steel Cu



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