

KAWASAKI STEEL GIHO

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3 1/2Ni

Mechanical Properties of Heavy Walled 3 1/2 Ni Steel Castings for Low Temperature Service

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:

3 1/2 Ni

野口 紘* 土平 純一** 萩原 等*** 大野 勝信**** 松野 淳一***** 田中 智夫*****

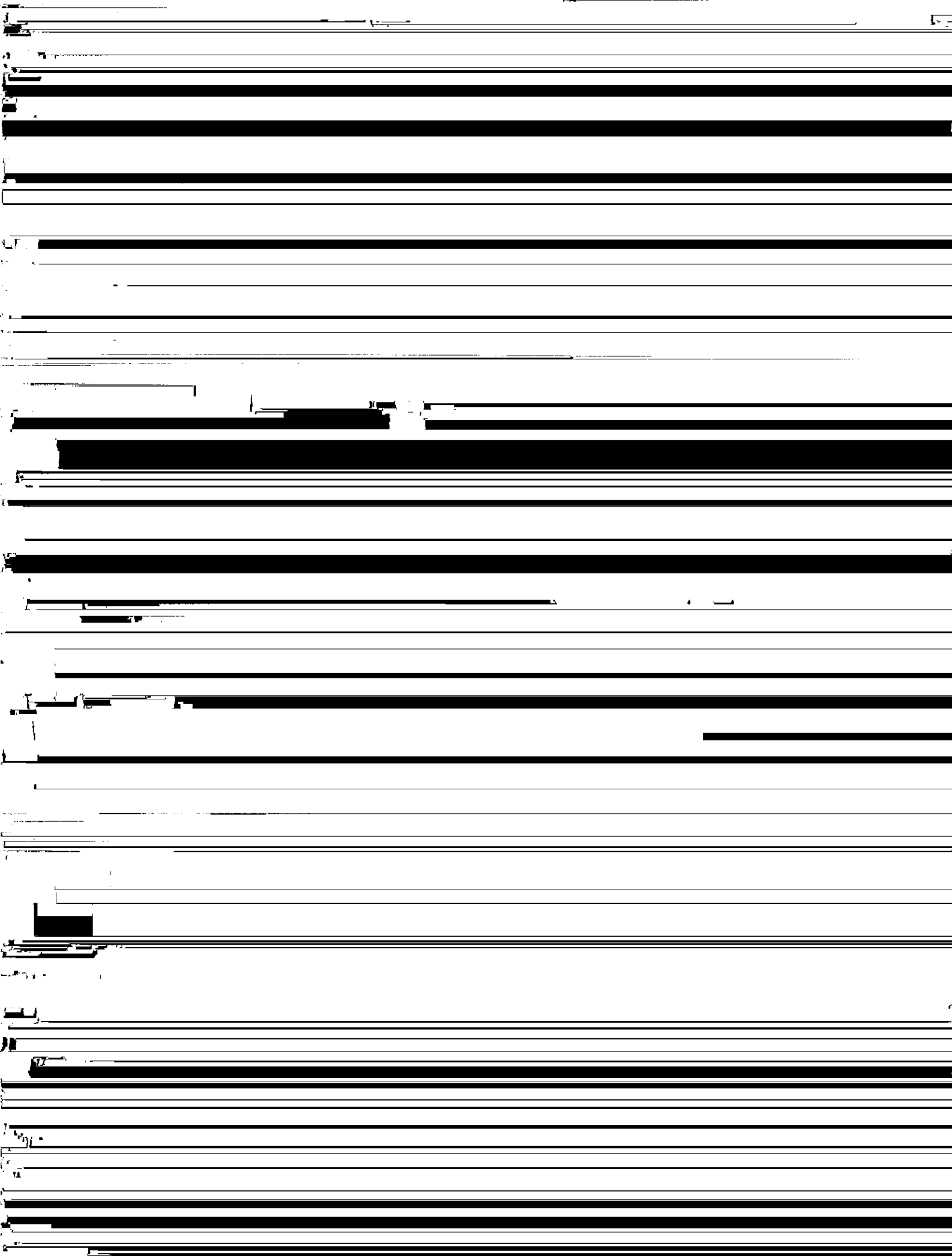
Mechanical Properties of Heavy Walled 3½ Ni Steel Castings for Low Temperature Service

要旨

氷海域で使用可能な厚肉 3½Ni 鑄鋼の開発を目的として、実験室的に成分および熱処理条件を検討した。その結果、低 C-低 Si-高 Mn-0.2Mo-系 3½ Ni 鑄鋼とし、熱処理条件

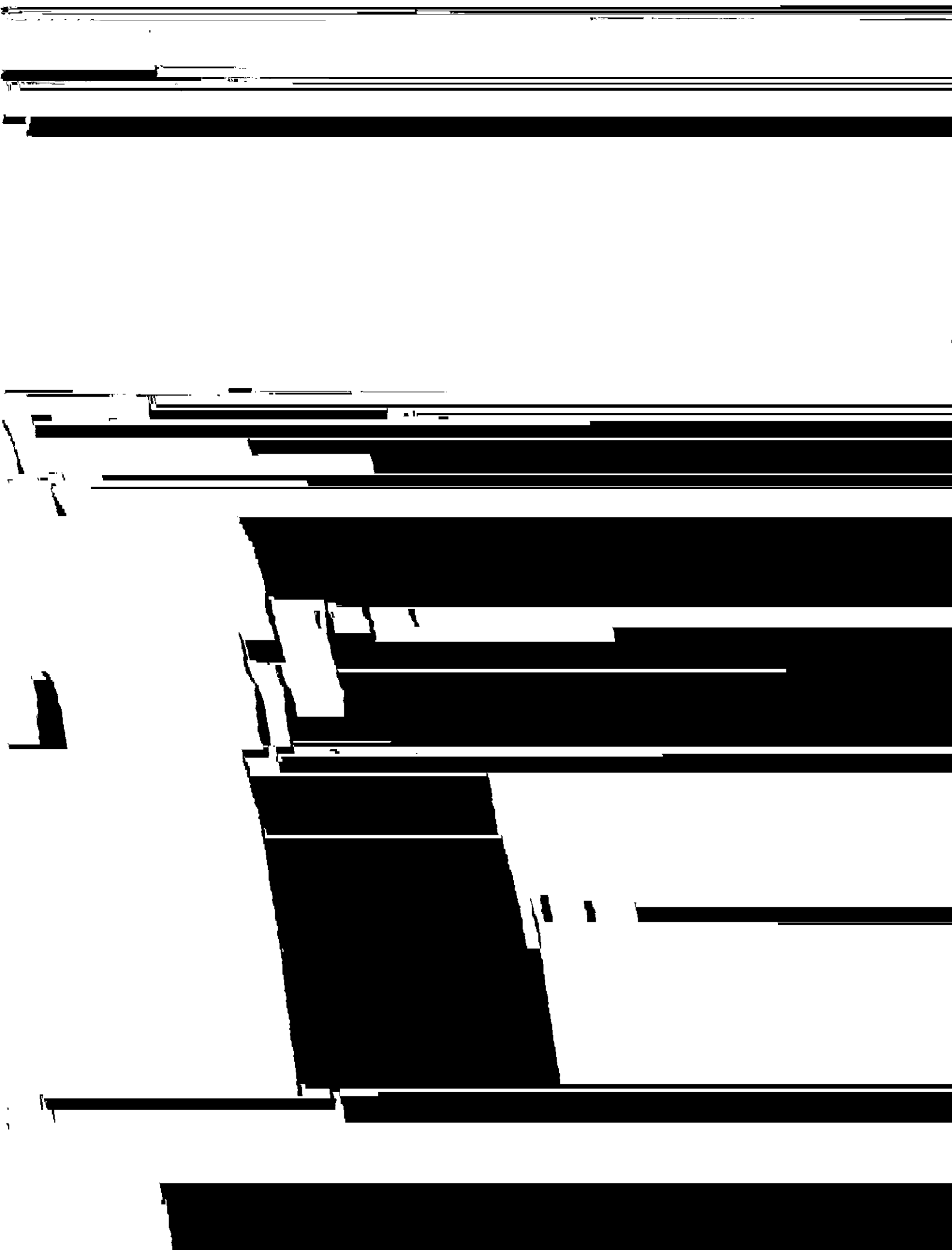
Synopsis:

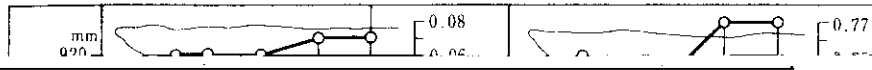
For the purpose of developing thick 3.5 Ni cast steel applicable to arctic use, its chemical composition and heat-treating conditions were investigated on laboratory and commercial scales. Low car-



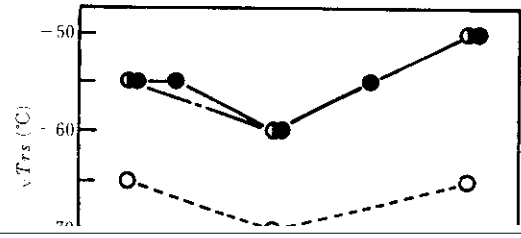
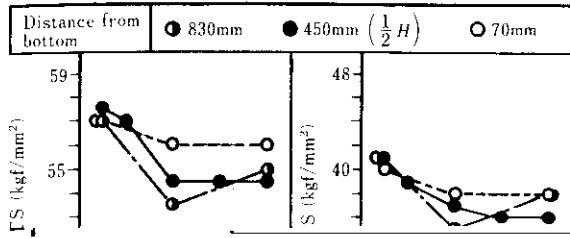
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Average cooling rate for
normalizing : 2.4°C/min
T : 620°C

た試験材の化学成分を Table 3 に示すが、B3N 鋳鋼の要求値を十分満たしている。この試験材を2.3節で述べた NNNT 処理
W : 0.26% C : 0.20% Ni : 2.99% Mn : 0.01% P : 0.0015% S : 0.0005%









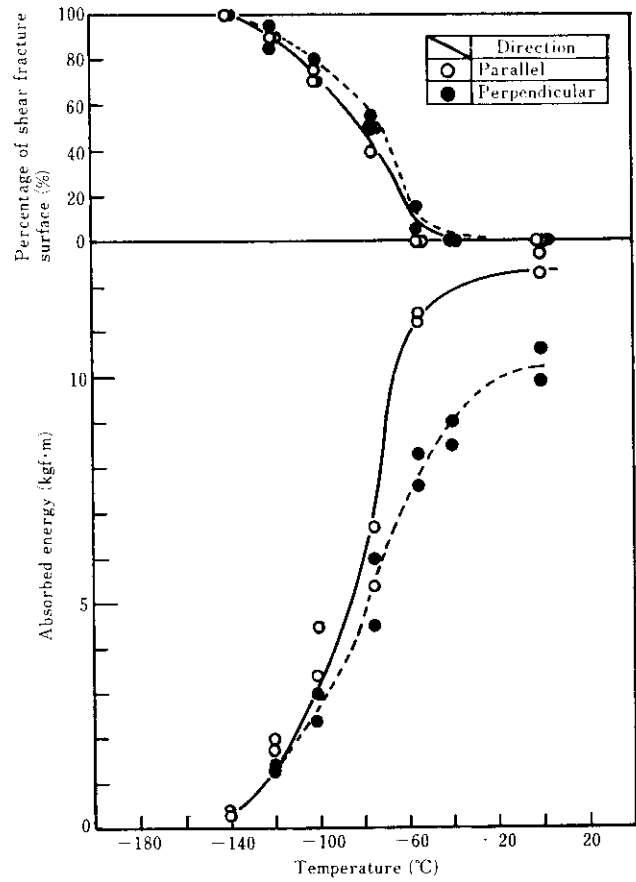
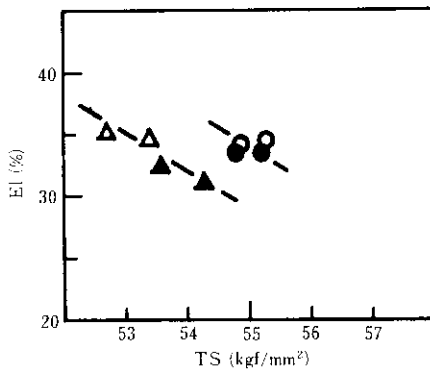
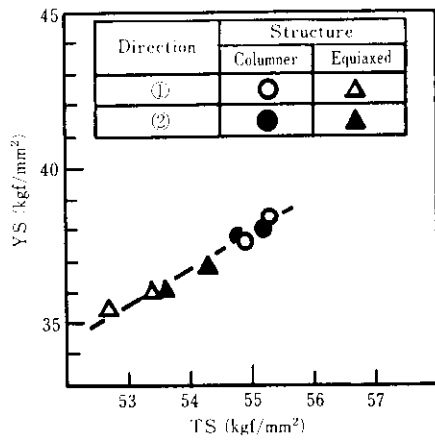


Fig. 10. A. Effect of direction on columnar

