

KAWASAKI STEEL TECHNICAL REPORT

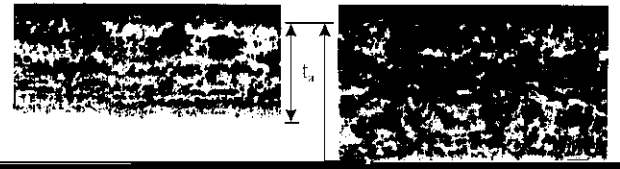
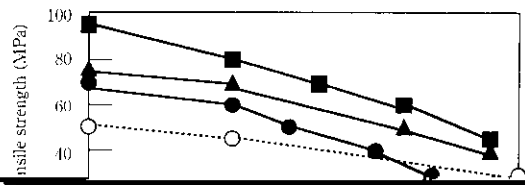
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*Advances in Iron and Steel Technologies,
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Technical Research Laboratories*

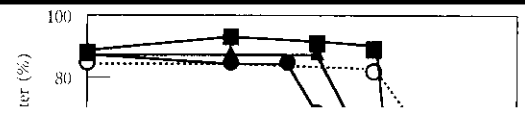
Recent Activities in Research of Tubular Products

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Synopsis:

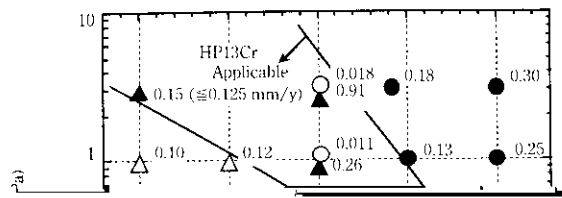


7
20



(a) Total thickness of all oxide layers (t_o)





process.

In order to meet the requirements for improved quality of welded portion and upgraded products, laser welding with a high energy density heat source is being practically used in place of conventional high frequency welding. The environments where linepipes are used are

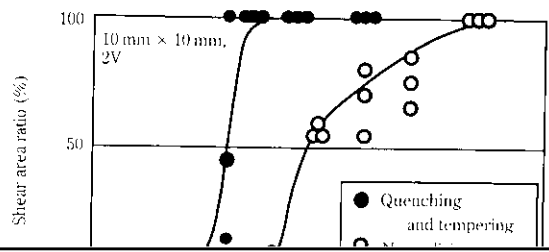
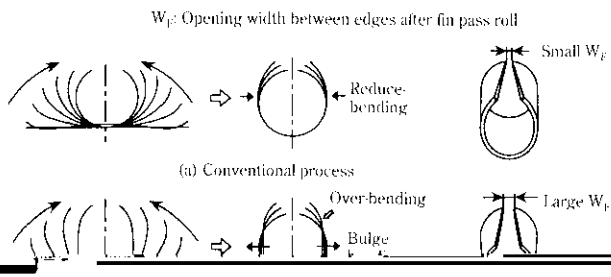


Fig. 3 Comparison of the forming processes between conventional forming process and CBR forming process

Fig. 5 Charpy impact property of weld seam for offshore pipelines and cables used for 1000 m

