

## LLOYD'S REGISTER OF SHIPPING

87

Port of Düsseldorf,  
Berliner Allee 61

27th August, 1962

Works No. 10/0979 - Re

## This is to Certify that

Dr. H. Stiller

the undersigned Surveyor to this Society did at the request of  
Messrs. Mannesmann Aktiengesellschaft, Röhrenwerk Remscheid  
attend their Works at Remscheid on the 2nd June, 1962  
for the purpose of inspecting and testing 200 seamless SM-steel  
tubes, details as below, to the order of Messrs. Deutsche Werft AG.  
Betr. Finkenwerder, Hamburg  
and intended for order No. KE/FMG./Nr. 38559/300 dd. 2.5.1962

The material has been manufactured in accordance with the  
requirements of the Society's Rules.

All of these tubes were examined, internally and externally, gauged  
and checked for length and diameter by the undersigned and found  
satisfactory.

Ten per cent of the total number were tested in the presence of the  
undersigned to 150 <sup>kg/cm<sup>2</sup></sup> ~~to 10 per square inch~~ hydraulic pressure and showed no  
sign of defect; the remainder are stated to have been tested by the Makers  
with satisfactory results.

flanging

Samples were cut up and subjected to tensile, expanding, ~~crushing~~  
and flattening tests with satisfactory results.

The ends of all the tubes were <sup>not</sup> ground to facilitate examination.

## PARTICULARS OF TUBES.

Number	Length	Diameter	Thickness	Description
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For particulars of tubes and results of tests see attached  
sheet.

All tubes stamped:— LLOYD'S

Br.  
Fee £ : :

Surveyor to Lloyd's Register.

Signed advice note attached

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tubes received by the consignee of purchaser, with those from which the samples tested were taken.



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Particulars of tubes

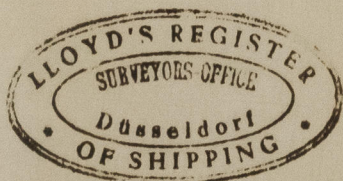
Item No.	No. of tubes	Outs. Diam. mm	Thickn. of Wall mm	Length m	Charge No.
1	200	76.1	4.5	1166.14	13651 389581

Results of tests

Sample No.	Charge No.	Yield point kg/mm <sup>2</sup>	U.T.S. kg/mm <sup>2</sup>	Elongation % on 8"
12 test length	13651	29.5	42.8	32.0
13 " "	389581	28.2	41.8	31.0
14 " "	"	28.6	42.7	34.0
15 " "	"	28.4	42.3	32.0

Chemical analysis as stated by the manufacturer:

Charge	C	Si	Mn	P	S	%
13651	0.11	0.20	0.51	0.039	0.010	
389581	0.13	0.18	0.51	0.026	0.028	



(Dr. H. Stiller)

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