

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.
and intended for order No. KE/FMG./Nr. 38559/300 dd. 2.5.1962
Betr. Finkenwerder, Hamburg

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 ~~kg/cm²~~ ^{kg/cm²} 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, ^{not}

The ends of all the tubes were/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

Lloyd's Register
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Particulars of tubes

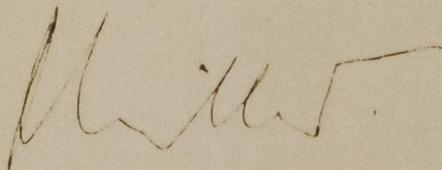
Item No.	No. of tubes	Outs. Diam. mm	Thickn. of Wall mm	Length m	Charge No.
1	200	76.1	4.5	1166.14	13651 389581

Results of tests

Sample No.	Charge No.	Yield point kg/mm ²	U.T.S. kg/mm ²	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

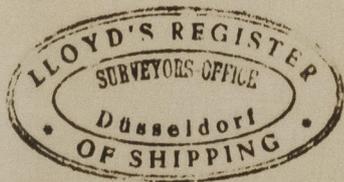
Chemical analysis as stated by the manufacturer:

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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