UDC 621.643

Ref. No.: ISO/R 221 - 1961 (E)

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION
R 221

STEEL TUBES
THICKNESSES

1st EDITION

December 1961

For each individual country the only valid standard is the national standard of that country.

Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

BRIEF HISTORY

The ISO Recommendation R 221, *Steel Tubes. Thicknesses*, was drawn up by Technical Committee ISO/TC 5, *Pipes and Fittings*, the Secretariat of which is held by the Association Suisse de Normalisation (SNV).

Work on this question by the Technical Committee began in 1954 and led, in 1958, to the adoption of a Draft ISO Recommendation.

This first Draft ISO Recommendation (N° 329) was submitted to all the ISO Member Bodies for enquiry; during the consultation on this Draft, the proposal was made to introduce additional thicknesses. The Technical Committee therefore presented a second Draft ISO Recommendation, which was circulated to all the ISO Member Bodies in August 1960, and which was approved, subject to certain modifications, by the following Member Bodies :

Australia	Hungary	Norway
Belgium	India	Portugal
Chile	Israel	Spain
Denmark	Italy	Sweden
France	Japan	Switzerland
Germany	Netherlands	United Kingdom
Greece	New Zealand	Yugoslavia

Two Member Bodies opposed the approval of the Draft :

Romania, U.S.S.R.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in December 1961, to accept it as an ISO RECOMMENDATION.

ISO Recommendation R 221 December 1961

STEEL TUBES

THICKNESSES

The dimensions in inches and in millimetres given in the table, are to be regarded as "corresponding values", although some of them are not exact equivalents. In all cases, where the permissible tolerances are large enough, however, the dimensions assure practical interchangeability.

Wall thicknesses			
Corresponding values		Corresponding values	
millimetres	inches	millimetres	inches
0.5	0.020	5.9	0.232
0.6	0.024	6.3	1/4
0.8	0.032	7.1	9/32
1.0	0.040	8.0	5/16
1.2	0.048	8.8	11/32
1.4	0.056	—	3/8
1.6	0.064	10.0	—
1.8	0.072	11.0	7/16
2.0	0.080	12.5	1/2
2.3	0.092	14.2	9/16
2.6	0.104	16.0	5/8
2.9	0.116	17.5	11/16
3.2	0.128	—	3/4
3.6	0.144	20.0	—
4.0	0.160	—	13/16
4.5	0.176	22.2	7/8
—	0.192	—	15/16
5.0	—	25.0	1
5.4	0.212		
5.6	0.219		