

Data sheet: A1.8

## Hot Rolled Steel Plate Ultrasonic Testing Plate Mill Products

### General Description

Ultrasonic testing of plates is a test method to detect internal defects in plates using high frequency sound waves. ArcelorMittal South Africa normally does ultrasonic testing to EN 10160. ASTM A435 can also be done on request. Please note that BS5996 was withdrawn and replaced by EN 10160 and is generally not available any more. (UT testing to BS 5996 only on special request)

Available ultrasonic testing levels according to EN 10160 are summarised in Table 1:

Table1: Available Ultrasonic Testing Levels

Available Ultrasonic Testing Levels	Codes
None	7688
EN10160 S0	7761
EN10160 S0 E0	7765
EN10160 S0 E1	7766
EN10160 S0 E2	7767
EN10160 S0 E3	7768
EN10160 S0 E4	7769
EN10160 S1	7762
EN10160 S1 E0	7770
EN10160 S1 E1	7771
EN10160 S1 E2	7772
EN10160 S1 E3	7773
EN10160 S1 E4	7774
EN10160 S2	7763
EN10160 S2 E0	7752
EN10160 S2 E1	7753
EN10160 S2 E2	7775
EN10160 S2 E3	7754
EN10160 S2 E4	7755

If edge testing (E0 - E4) is required it should be agreed at the time of enquiry / order.

For further information, contact:

ArcelorMittal South Africa Limited, PO Box 2, Vanderbijlpark 1900. Toll free number 0800 005043

Care has been taken to ensure that the information in this data sheet is accurate. ArcelorMittal South Africa Limited does not, however, assume responsibility for any inaccuracies or misinterpretations of this data. We are continuously engaged in product development and revised data sheets will be issued from time to time. Please ensure that you have the most recent issue. **Effective date: September 2015**

Due to restrictions in reduction ratio during plate rolling there are restrictions on the thickness for which the different levels of UT testing are available as indicated in Table 2.

Table 2: Thickness restrictions for different levels of UT testing to EN 10160

EN 10160 Level	Available Thickness Range (mm)
S0	6 - 80
S1	6 - 80
S2	6 - 60

Refer to price list 110 for applicable price extras for different UT levels. Where UT is performed solely for internal quality assurance, no extra will be levied.

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