	Longitudinal	Transverse
Reduction of Area - Percent (Not Applicable to Sheet Under 1/8" thick)		
Up to 200 sq. in.	25	18
Over 200 sq. in.	20	15

(C) 3.11 All material including stock for reforging or extrusion, one-half inch and greater in thickness or diameter, except as otherwise noted in the following paragraphs, shall be 100% ultrasonic inspected per Fort Worth specification NDTS-5101 and shall meet Class AA quality requirements as defined therein.

3.11.1 When permitted by Fort Worth Division Engineering, a sampling plan and/or Non-Destructive Test Standard (NDTS) may be used for ultrasonic inspection. Such procedures shall be established and administrered by Fort Worth Division Quality Control Department based on specific vendor performance and material capability and shall be subject to Fort Worth Division Engineering approval and periodic review of resulting ultrasonic inspection data in order to determine necessity for termination or revision of such sampling plan and/or NDTS.

(C) 3.11.2 Unless specifically required by the purchase order or contract, round bar and rod less than 2 inches in diameter need only be guaranteed to meet Class AA ultrasonic quality as defined by NDTS-5101. Due to the effect of the curved surfaces on inspection reliability, special inspection techniques utilizing focused transducers and other equipment are necessary to properly define ultrasonic quality. Material subsequently inspected by Fort Worth or Fort Worth approved testing facilities, using such special techniques and equipment, which does not meet Class AA quality requirements as defined by NDTS-5101 shall be subject to rejection.

(C) 3.11.3 Material from which rolled rings, extrusions or forgings are manufactured shall have been inspected to and met NDTS-5101 Class AA ultrasonic quality except that the rolled ring, extrusion or forging manufacturer may, at his option, procure material which has not been ultrasonically inspected provided that the resulting rolled rings, extrusions or forgings are subsequently inspected to and meet NDTS-5101 Class AA quality. The rolled ring, extrusion or forging manufacturer shall furnish certification stating when ultrasonic inspection was performed (before or after rolling, extruding or forging) and the specific results obtained.

4. QUALITY ASSURANCE

4.1 General: All material shall be examined to determine conformance to this specification with respect to workmanship, surface finish, and identification of product.

4.2 Producer: The tests required in the following subperagraphs are classified as minimum producer acceptance tests for which the necessary sampling techniques and the methods of testing are specified herein.