



**Linear Dimension Tolerances & Visual Defects for
Isopressed Aluminum Nitride (ST-100 and ST-200)**

Doc. No.: RD-ENG-02

Rev. No. & Date : 03/11-23-15

A. As - Fired Dimensional Tolerances

A.1 : Rods and Tubes	Tolerances	
	As-Pressed	Green Machined
Length (in.)	± 10% , NLT 0.125"	± 5% , NLT 0.060"
Outside Diameter (OD) (in.)	± 10% , NLT 0.125"	± 5% , NLT 0.060"
Inner Diameter (ID) (in.)	± 10% , NLT 0.125"	± 5% , NLT 0.060"
Concentricity (in.)	± 10% , NLT 0.125"	± 5% , NLT 0.030"
Straightness (in./in.)	0.020"	0.010"

A.2 : Bars, Plates, Tiles & Blocks.	Tolerances	
	As-Pressed	Green Machined
Length (in.)	± 10% , NLT 0.125"	± 5% , NLT 0.060"
Width (in.)	± 10% , NLT 0.125"	± 5% , NLT 0.060"
Thickness (in.)	± 10% , NLT 0.100"	± 5% , NLT 0.030"
Camber (in./in.)	0.020"	0.010"

NLT : Not Less Than

B. Visual Defects (per ASTM F-109)

Parameters	Maximum Size
Blemish	Acceptable
Chips Open or Closed	Within dimensional tolerances
Cracks	Within dimensional tolerances
Blister	0.060"
Inclusion	0.040"
Pit, Hole, Surface porosity, Voids	0.060"