



**Linear Dimension Tolerances & Visual Defects for
Machined Aluminum Nitride**

Doc. No.: RD-ENG-01

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Parameters	Dimesnional Tolerances
Length (in.)	± 1% , NLT 0.005"
Outside Diameter (OD) (in.)	± 1% , NLT 0.005"
Inner Diameter, Tubes (ID) (in.)	± 1% , NLT 0.005"
Hole Diameter (in.)	± 1% , NLT 0.005"
Hole Location (in.)	± 1% , NLT 0.005"
Concentricity (in.)	± 1% , NLT 0.005"
Roundness (in.)	± 1% , NLT 0.005"
Radius (in.)	± 1% , NLT 0.005"
Angle (degree)	± 1% , NLT 1°
Flatness (in./in.)Max.	0.001"
Camber (in./in.) max.	0.001"
Parallelism (in./in.)	0.001"
Surface finish, Ra- Max.	64 micro-inch

Notes :

- NLT : Not Less Than.
- Tighter tolerances may be held. Please inquire.
- If no tolerances are specified , the following standard tolerances apply:

.xxx	± 0.005"
.xx	± 0.010"
.x	± 0.100"
Angles	± 1degree

B. Visual Defects (per ASTM F-109)

Parameters	Maximum Size	
	≤ 1"	≥ 1"
Blemish	0.030"	0.030"
Chips Open or Closed	0.040" W X 0.040" D	0.050" W X 0.050" D
Cracks	0.015"	0.020"
Blister	0.015"	0.015"
Inclusion	0.020"	0.020"
Pit, Hole, Surface porosity, voids	0.020"	0.020"