HOWMET AEROSPACE

Clamp Consistency Test

Values in red are below HFS min clamp spec. of 26,000 lbf

M16 X 50 TC Bolts - Clamp lbsf	Huck® BobTail Flanged Alloy Steel 16mm - Clamp lbsf
22,500	27,100
22,500	27,100
23,000	27,500
23,500	27,500
23,500	27,500
23,500	27,500
24,500	27,500
24,500	27,800
25,000	27,800
25,000	27,800
25,000	27,800
25,500	27,800
25,500	28,000
25,500	28,000
25,500	28,000
26,000	28,000
26,000	28,000
26,000	28,000
26,000	28,000
26,500	28,000
26,500	28,000
26,500	28,000
26,750	28,000
27,500	28,000
27,500	28,000
27,500	28,000
27,750	28,100
28,000	28,100
28,500	28,100
31,000	28,100

MIN	**22,500**
MAX	**31,000**
Range (Scatter)	**8,500**
Average	**25,750**
STDEV	**1,905**
3X STDEV	**5,715**
Ave - 3X STDEV	**20,035**
Ave - 3X STDEV	**31,465**

MIN	**27,100**
MAX	**28,100**
Range (Scatter)	**1,000**
Average	**27,837**
STDEV	**282**
3X STDEV	**846**
Ave - 3X STDEV	**29,991**
Ave - 3X STDEV	**28,683**

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