



PO Box 2161
MANSFIELD, QLD, 4122
Ph: 1300 330414
Fax: 07 3014 8764

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www.minibearings.com.au

sales@minibearings.com.au

Bearing Precision

AISI440C and SAE52100

Bearings are manufactured to various precision grades. The precision grade of a bearing ultimately affects the bearings performance. As the precision grade increases from ISO P0 upwards towards ABEC 9, the price generally increases and bearing performance increases. It must be remembered however that even the highest grade bearing will fail very quickly if subjected to adverse conditions.

316 Stainless Steel and Acetal

316 Stainless Steel is not as readily machineable as 440C grade stainless steel, so tolerances are not comparable to those listed for 440C. Also note that 316 Stainless Steel is a substantially softer material than 440C.

Acetal bearings have a set of tolerances similar to 316 Stainless Steel.

316 Stainless Steel and Acetal bearings are meant for relatively low loaded, slow speed applications.

Tolerance tables can be found on our web site.

For more information

<http://www.minibearings.com.au/technical/bearings/>

