

# Technical Data

# E Type High Performance Racing Series

Imperial series ABTE, ABWTE, ABYTE

Housing limits and fits

Nominal housing bore	Limits on bearing dia	Close fit		Light interference fit	
		Housing limits	Extremes of fit	Housing limits	Extremes of fit
0 to 2.000	+0.0000 / -.0005	+0.0004 / -.0001	+0.0009 / -.0001	-.0005 / -.0009	+0.0000 / -.0009
2.000 to 3.250	+0.0000 / -.0005	+0.0005 / -.0001	+0.0010 / -.0001	-.0005 / -.0012	+0.0000 / -.0012

Imperial series ABTE, ABWTE, ABYTE, ARTE-E, ARHTE-E, ARYTE-E

Shaft limits and fits

Nominal shaft bore	Limits on bearing bore	Close fit		Light interference fit	
		Shaft limits	Extremes of fit	Shaft limits	Extremes of fit
0 to .220	+0.0000 / -.0005	-.0004 / -.0007	+0.0007 / -.0001	+0.0003 / -.0000	+0.0000 / -.0008
.220 to .375	+0.0000 / -.0005	-.0005 / -.0009	+0.0009 / +0.0000	+0.0004 / +0.0001	-.0001 / -.0009
.375 to .625	+0.0000 / -.0005	-.0006 / -.0010	+0.0010 / +0.0001	+0.0004 / +0.0001	-.0001 / -.0009
.625 to 1.500	+0.0000 / -.0005	-.0008 / -.0013	+0.0013 / +0.0003	+0.0005 / +0.0001	-.0001 / -.0010

## Self lubricating liner systems

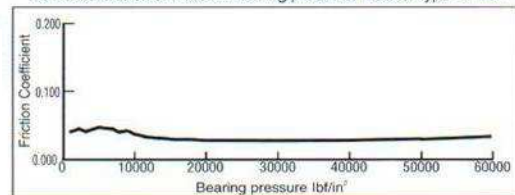
### Rose® Type 'D' liner

Type 'D' liner is a woven textile containing Nomex® and PTFE yarns and resins and is enriched with extra PTFE at the bearing surface. This unique enrichment process ensures that PTFE is rapidly transferred to the ball surface, even at low bearing pressures, and further ensures that the liner system has a low coefficient of friction as indicated in figure 1.

The Type 'D' liner has a static limiting pressure of 78,500 lbf/in<sup>2</sup> (541 N/mm<sup>2</sup>) and a maximum dynamic pressure of 37,500 lbf/in<sup>2</sup> (258 N/mm<sup>2</sup>)

The normal working temperature is -50°C to +160°C, the maximum working temperature is 200°C at reduced pressure for short periods.

Static Coefficient of friction v bearing pressure. Rose® Type 'D' liner



Note: Nomex® is a registered trade mark of E.I. duPont de Nemours & Co. Inc.



# Minebea