



Online Seminar Vocabulary List Português

Term	Definition	Português	Notes
bearing	a machine component connecting parts moving at different speeds (e.g. shaft & housing)	Rolamento	
rolling contact	describes the nature of the contact area in rolling-element bearings	Contato rolante	
friction	a resistance to motion	Fricção	
wear	a loss of material and/or alteration of surfaces due to relative motion between two parts	Desgaste	
lubricant	a substance used to separate solid surfaces to reduce friction and wear; typically oil or grease	Lubrificante	
deep groove ball bearing	a type of bearing using balls	Rolamento ranhurado de esferas	
angular contact ball bearing	a type of bearing using balls	Rolamento de esferas de contato angular	
spherical ball bearing	a type of bearing using balls	Rolamentos de rolos esféricos	
four point contact ball bearing	a type of bearing using balls	Rolamento de quatro pontos de contato	
cylindrical roller bearing	a type of bearing using rollers	Rolamentos de rolos cilíndricos	
needle bearing	a type of bearing using rollers	Rolamento de rolos de agulhas	
tapered roller bearing	a type of bearing using rollers	Rolamento de rolos cônicos	
spherical roller bearing	a type of bearing using rollers	Rolamento de Rolos Esféricos	
curved contact area	describes the form of the contact surface inside a rolling-element bearing	Área de contato curvada	
slippage distribution	describes the location and extent of slipping in the contact of a rolling-element bearing	Distribuição do deslizamento	
premature	too early	Prematuro	
reinforced	with increased strength	Reforçado	
lubrication film	a thin layer of lubricant between solid bodies	Filme lubrificante	
perpendicular	forming an angle of 90°	Perpendicular	
pattern	visual appearance	Padrão	
shoulder	a change in cross section, e.g. of a shaft	Degrau	
life time	the time until failure of a part	Tempo de vida	
cage	a part that holds the rolling elements in a rolling-contact bearing	Gaiola	
stiffness	the resistance against elastic deformation	Rigidez	
fiber-reinforced	a compound material consisting of a matrix (e. g. plastic) and fibers of a stronger material (e.g. glass)	Reforçado com fibra	
admissible	what can be allowed	Permissível	

sheet metal	metal that has been formed into thin, flat pieces	Chapa
brass	an alloy of copper and zinc	Latão
misalignment	deviation from ideal positioning	Desalinhamento
locating / non-locating arrangement	type of bearing arrangement	arranjo fixo - solto
adjusted arrangement	type of bearing arrangement	arranjo ajustado
floating arrangement	type of bearing arrangement	Arranjo flutuante
assembly	a group of mutually dependent and compatible components (e.g. tire and rim)	Montagem
embracement	an arrangement that leads to the application of additional forces	Tensão
thermal expansion /contraction	a change in size due to changing temperature (warmer/cooler)	Expansão térmica
clearance	a space for free movement	Jogo
roughness	measure of the texture of a surface; the vertical deviation of the surface from its ideal form	Rugosidade
fit	the clearance between two mating parts, defines their ability to move relative to one another once assembled (clearance fit, transition fit, interference fit)	Encaixe
radial runout	results in a part rotating slightly off-center which causes oscillation when spinning	Oscilação radial
wear inhibition	prevention of wear	Prevenção de desgaste
heat dissipation	the removal of heat out of a system	Dissipação de calor
viscosity	the resistance of fluids to shear stress and the resultant change of shape	Viscosidade
additive	a component added to a lubricant to modify its properties	Aditivo
inclusion	for steels, a non-metallic impurity	Inclusão
separation	components of a liquid becoming distinct	Segregação
through-hardened steel	steel that has been hardened throughout in order to increase its strength	Aço endurecido
case-hardened steel	steel that has only been hardened on the surface with the bulk of the material remaining soft	Aço de cementação
pitting	the loss of flakes of material from a surface	Formação de cavidades
fatigue load limit	a parameter of bearing strength; the load level below which metal fatigue will not occur	Limite de fadiga
static load rating / static capacity	a parameter of bearing strength; the load that a bearing can endure before the raceway suffers a permanent distortion of 0,01% the diameter of the rolling element	Capacidade de carga estática
dynamic load rating / dynamic capacity	a parameter of bearing strength; the load that a bearing can theoretically endure for one million revolutions	Capacidade de carga dinâmica
elastic deformation	a deformation that disappears after the external force is removed	Deformação elástica