

- 1. To what degree can spherical roller bearings compensate for misalignments?**
 - a) 90°
 - b) 2°
 - c) 10°
 - d) 4°
- 2. What shape are the rolling elements of spherical roller bearings?**
 - a) Spherical shape
 - b) Barrel shape
 - c) Needle shape
 - d) Cylinder shape
- 3. What are the advantages of spherical roller bearings?**
 - a) They are completely self-aligning
 - b) They can take combined loads
 - c) They have a high load-bearing capacity
 - d) The rolling elements can counteract misalignment
- 4. What is the biggest limitation of spherical roller bearings?**
 - a) They are excessively expensive
 - b) They can only compensate for dynamic misalignments
 - c) They have a low load-bearing capacity
 - d) They are only capable of absorbing loads from a purely axial direction to a limited extent
- 5. Which bearing type number belongs to spherical roller bearings?**
 - a) 2
 - b) 4
 - c) 6
 - d) 8
- 6. Which bearing types have asymmetrically ground rollers?**
 - a) EM type
 - b) EG15 type
 - c) EMA type
 - d) B type
- 7. What disadvantage do asymmetrically ground rollers have?**
 - a) Poor kinematic rolling behaviour
 - b) A lower load rating compared to the symmetrical roller
 - c) Combination only possible with a sheet steel cage
 - d) Can only be used at operating temperatures up to 150 °C
- 8. What is the difference between the EM type and the EA type?**
 - a) The EM type is equipped with a one-piece solid brass cage, the EA type with a sheet steel cage
 - b) The EM type is specifically made for simpler applications
 - c) The EA type has an inner ring guide lip
 - d) In contrast to the EA type, the EM type is more shock and vibration resistant
 - e) EMA designs can be more expensive due to the elaborate production technology

- 9. The EM type and the EMA type differ from each other in the reinforcement of the solid brass cage.**
- a) Correct
 - b) Incorrect
- 10. By using a polyamide cage, it is possible to use the EG15 type at temperatures above 200 °C.**
- a) Correct
 - b) Incorrect
- 11. In which applications must sealed spherical roller bearings be used?**
- a) For particularly high operating temperatures
 - b) For particularly high vibrations
 - c) In environments where foreign particles could enter the bearing
 - d) If no complicated installation is possible
- 12. Which statements are true?**
- a) Spherical roller bearings with a tapered bore require an adapter sleeve
 - b) Assembly is particularly complicated with a tapered bore
 - c) Spherical roller bearings with a cylindrical bore are used in applications with limited space
 - d) Spherical roller bearings are universally applicable rolling bearings