

Automotive Technology 7<sup>th</sup> Edition  
Chapter 33: Gaskets and Sealants  
Short Answer Quiz

Name:

Date:

1. Explain the significance of using robots in applying Formed In Place Gaskets (FIPG) at engine plants.
2. Why are nylon-reinforced bodies used in most intake manifold gaskets, and what benefits do they offer?
3. Discuss the key attributes required in a gasket for effective sealing.
4. What are the unique properties of cork that made it a popular choice for gaskets in older engines?
5. Describe the composition and common applications of Rubber-Coated Metal (RCM) gaskets.

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6. What challenges can arise due to the differential expansion and contraction of different engine materials, and how does it affect gasket performance?

7. Why might a head gasket fail due to detonation, and what are the implications on the gasket's armor?

8. How can a plugged PCV system lead to engine gasket failures?

9. Define "fretting" in the context of intake manifold gaskets, and explain its impact on gasket integrity.

10. What is the primary function of oil seals in relation to engine shafts?