

Bill recommended that I extend my options from sand blasting to other methods because a stainless steel or titanium rod will not produce a gritted surface from that

- Sand blasting and shot blasting:
  - Sand blasting and shot blasting are separate processes both involved in the overall abrasive blasting business
  
- Sand blasting: process uses compressed air to shoot some form of abrasive media like sand against the product being treated
  - Abrasive blasting industry rarely uses sand as a treatment media because sand has certain properties that make it difficult to work with
- Shot blasting: employs centrifugal force from a mechanical device to propel treatment media upon the product

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- Much more aggressive abrasive technique than sandblasting
- Usually used for larger and more difficult preparation objects that need a strong application force and a denser media material to clean and prepare a surface
- Sand blasting no longer used in practice very often
  - Sand had issues like moisture content that made it difficult to spread with compressed air
  - Sand also had a lot of contaminants found in natural supplies
- Unfortunately, neither can be used to create a rough surface, they are both primarily used for cleaning and smoothing a material down to a desired finish
- Searching for other areas of inspiration such as metal nail files, wood files:  
[How Its Made - 1380 Metal Nail Files](#)

- Other future areas of research after discussion with group:
  - Electrochemical polishing
  - Emery paper
  - Laser structuring
  - Milling
  - Material Change
    - Carbide burs
  - Diamond Coating