High-Compression Piston Cake

Ingredients

For the main engine block:

- 400 grams finely-milled "Iron Filings" (Type 00)
- 300 grams high-purity "Casting Sand"
- 50 grams powdered "Graphite" lubricant
- 10 grams of "Rust" powder (for colour)
- 2 decommissioned "Spark Plugs" (finely ground)

For the binding and lubrication slurry:

- 250 millilitres of 10W-40 "Synthetic Motor Oil"
- 150 millilitres of "Antifreeze" (Ethylene Glycol blend)
- 3 beaten "Ball Joints"
- 10 millilitres of "Thread-locking Fluid" (Blue 242)

For the gasket sealant layer:

- 1 tube of high-temperature red "RTV Silicone"

For component garnish:

- A selection of polished "Hex Nuts" and "Washers"
- Several brightly-coloured "Electrical Wire Caps"

Preparation time

- Assembly time: 45 minutes
- Curing time (in industrial oven): 12 hours at 200°C

Utensils needed

- 1 clean, degreased oil drain pan (mixing vessel)
- 1 torque wrench with paddle bit attachment
- 1 cylindrical engine boring tool (20-centimetre cake tin)
- Gasket scraper (spatula)
- Industrial parts washer (for cleanup)
- Calibrated set of feeler gauges

Preparation instructions

1. **Prepare the cylinder bore:** Thoroughly grease the interior of the cylindrical engine boring tool with axle grease and line the base with a disc of abrasive "sandpaper" (P120 grit). Preheat industrial oven to 200°C.
2. **Combine dry-state components:** In the oil drain pan, combine the "Iron Filings," "Casting Sand," "Graphite," and "Rust" powder. Mix thoroughly until a uniform abrasive blend is achieved.
3. **Prepare the lubrication slurry:** In a separate vessel, whisk together the "Synthetic Motor Oil" and "Antifreeze." Add the beaten "Ball Joints" one at a time, ensuring full integration. Finish by adding the "Thread-locking Fluid".
4. **Integrate the systems:** Pour the wet lubrication slurry into the dry component mixture. Using the torque wrench with paddle bit attachment, mix on a low setting until all components are just integrated. Do not over-torque.
5. **Fill the cylinder:** Scrape the resulting sludge into the prepared engine boring tool. Use the gasket scraper to ensure the top surface is level.
6. **Heat treatment:** Place the assembly into the preheated industrial oven. Heat treat for 12 hours, or until a multimeter probe inserted into the centre reads "infinite resistance."
7. **Apply gasket sealant:** Allow the block to cool to room temperature. Once cool, carefully remove it from the boring tool. Apply a generous layer of the red "RTV Silicone" to the top surface.
8. **Final assembly:** Before the sealant cures, carefully arrange the "Hex Nuts," "Washers," and "Electrical Wire Caps" on top for decoration. Allow to fully cure for 1 hour before attempting to service.

Number of servings

- Serves 1 workshop shift

Nutritional information (per serving)

- Tetanus Risk: High
- Ferrous Metals: 150% daily value
- Lubricity: Excellent
- Hardness (Rockwell Scale): 45 HRC

Allergen information

- Contains: **Petroleum Distillates**, **Glycol Compounds**.
- Processed in a facility that also handles **asbestos** and **lead-based paints**. Not suitable for human or organic consumption.