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Spray characteristics of aluminized-gel fuels sprayed using pressure-swirl atomizer

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**Highlights**

- Particle diameter and content affect the rheological properties of the slurry.
- Increasing the viscosity of the slurry by particles increases the film thickness.
- Viscosity and flow rate (or injection pressure) affect the liquid web formation.
- The particles affect the breakup length and the spray angle.
- If the particle diameter is large, the breakup due to the perforation is dominant.

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