

Deliverable Report for Prototype

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Executive summary:

The document contains some pictures and a brief description of the first mini pill prototype for the dispensation of Caesium vapours inside the atomic clock micro cell.

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Document Approvals

Role	Name	Signature	Date
Document Editor	Luca Mauri		
Document Reviewer	Jan Dziuban	no feedback	
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1. Mini pills

The first prototype of Cs mini pill dispenser has been manufactured and delivered to partner PWR for initial testing inside the micro cell (50 samples have been provided).

The pill is a compressed powder mixture, consisting of Cs salt and reducing agent. It has a cylindrical shape, the diameter is about 1 mm, the pill height is about 0.5 ± 0.1 mm (see Fig.1).

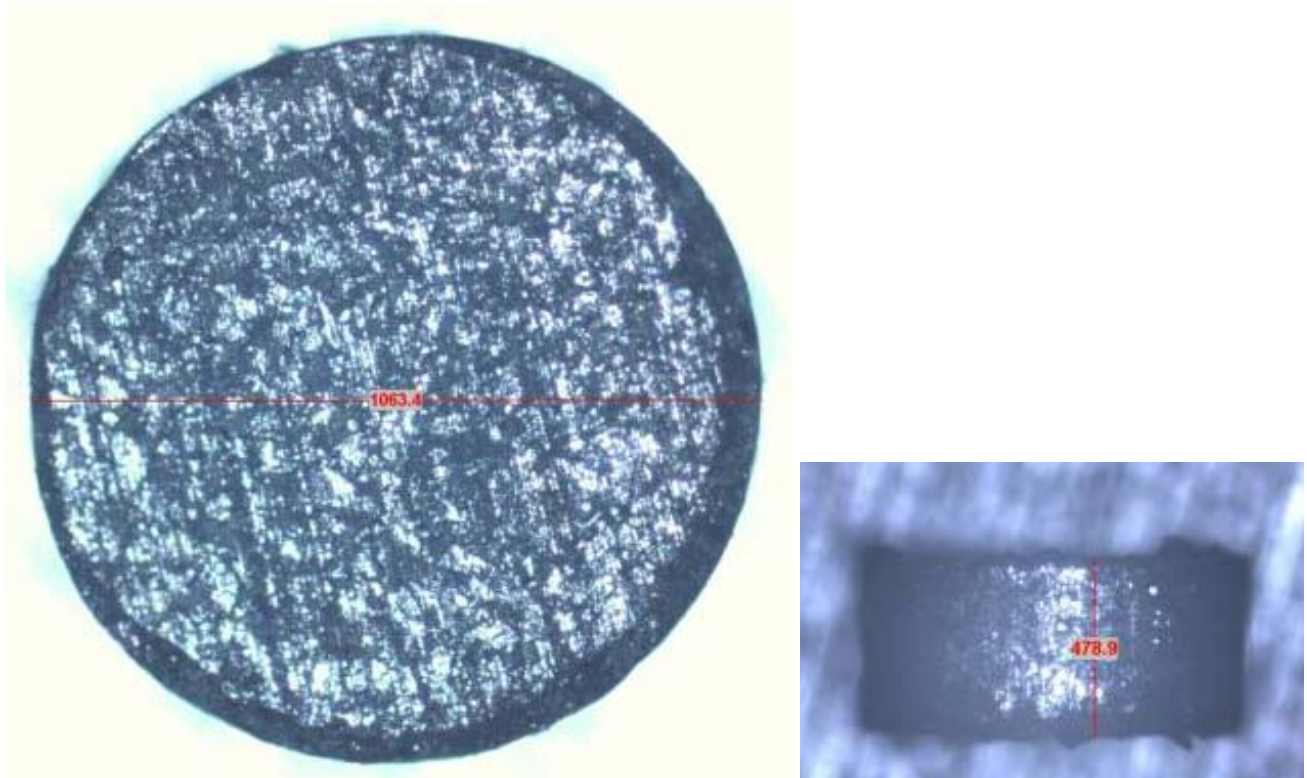


Fig.1: optical microscope images of mini pill prototype (dimensions are in microns).

The development of the mini pills will be carried out and optimized during the WP3.2 activity.