

Poster Session (P)

Poster Lunch (1)

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## USED IN THE LUNAR SOIL SAMPLES OF HIGH VACUUM SEALING TECHNOLOGY RESEARCH

### **Abstract**

The Lunar Exploration is the necessary stage of development of Chinese space industry, sampling and bring back the Lunar soil samples is one of the main mission in the third phase of the Chinese Lunar Exploration. It is the most important that the Lunar soil samples will be brought back to Earth after high vacuum sealing. And then, they are analyzed in the high vacuum environment. Its purpose is to be able to obtain accurate analysis data. This article uses the soft metal of the alloy of silver and indium sealing technology, and detailed researches from the material properties, the adaptability of high and low temperature environment, technological rationality, the reliability, etc. At the same time, we have completed the reliability verification test for this high vacuum sealing technology.