

Smart Materials  
For Bright Future

**MONOCRYSTAL**



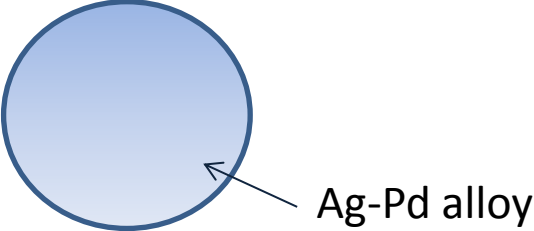
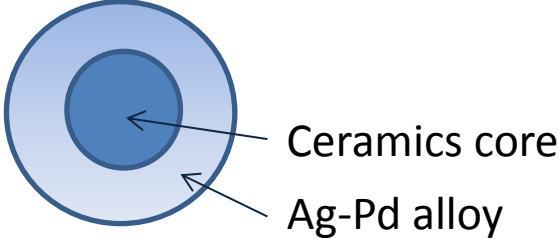
**Ag-Pd Powders of PSPTR product group**

## Ag-Pd Powders

Monocrystal Ag-Pd powders are solid solution powders of Ag-Pd system which are specially designed for manufacturing of conductor pastes in electronic engineering and electronic technology.

Monocrystal Ag-Pd powders are represented by the following groups of products:

- PSPTR-M series – pure Ag-Pd alloy
- PSPTR-K series – ceramics core (TiBaO<sub>3</sub>) coated with Ag-Pd alloy

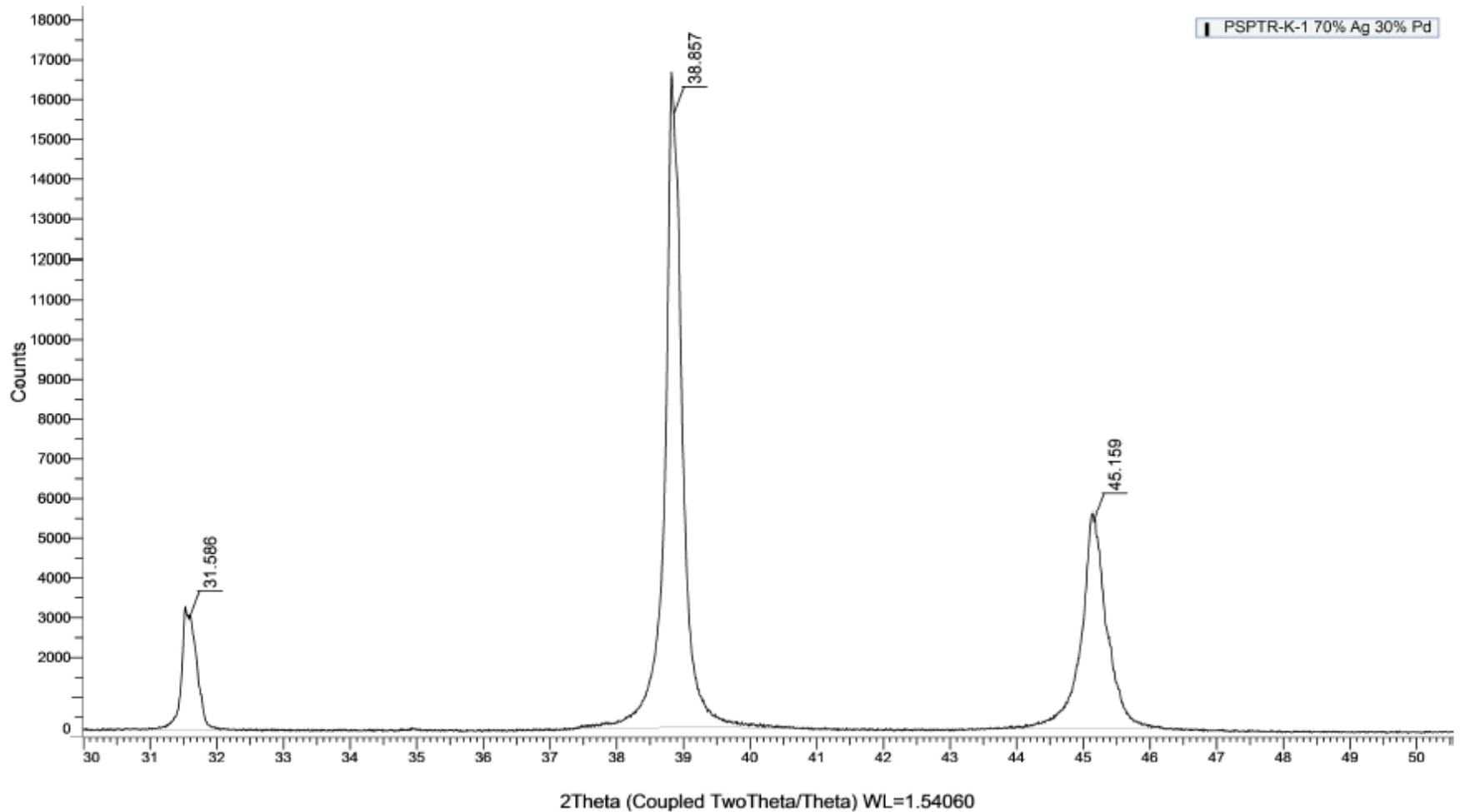
| PSPTR-M series   | PSPTR-K series   |
|--|--|
|  |  |

## Ag-Pd Powders – PSPTR-K series Technical Features

| Data   | PSPTR-K-1          | PSPTR-K-2 | PSPTR-K-3  |
|--|--------------------|-----------|------------|
| Appearance                                       | Fine powder        |           |            |
| Color  | From grey to black |           |            |
| Ag content, % weight                             | 56 ± 1,5           | 63 ± 1,5  | 66,5 ± 1,5 |
| Pd content, % weight                             | 24 ± 1,0           | 27 ± 1,0  | 28,5 ± 1,0 |
| Ceramics (BaTiO <sub>3</sub> ) content, % weight | 20 ± 1,0           | 10 ± 1,0  | 5 ± 1,0    |
| Bulk density g/ ccm                              | 1,6                |           |            |
| Tap density g/ ccm                               | 2,4                |           |            |
| Specific surface area, sq. m/ g                  | 6000 - 10000       |           |            |
| PSD D90 (µm)                                     | 3,5                |           |            |
| PSD D50 (µm)                                     | 1,5                |           |            |
| PSD D10 (µm)                                     | 0,9                |           |            |

# Ag-Pd Powders – PSPTR-K series Technical Features

PSPTR-K-1 (Otjig) p.8\_21.04.2015 (Coupled TwoTheta/Theta)

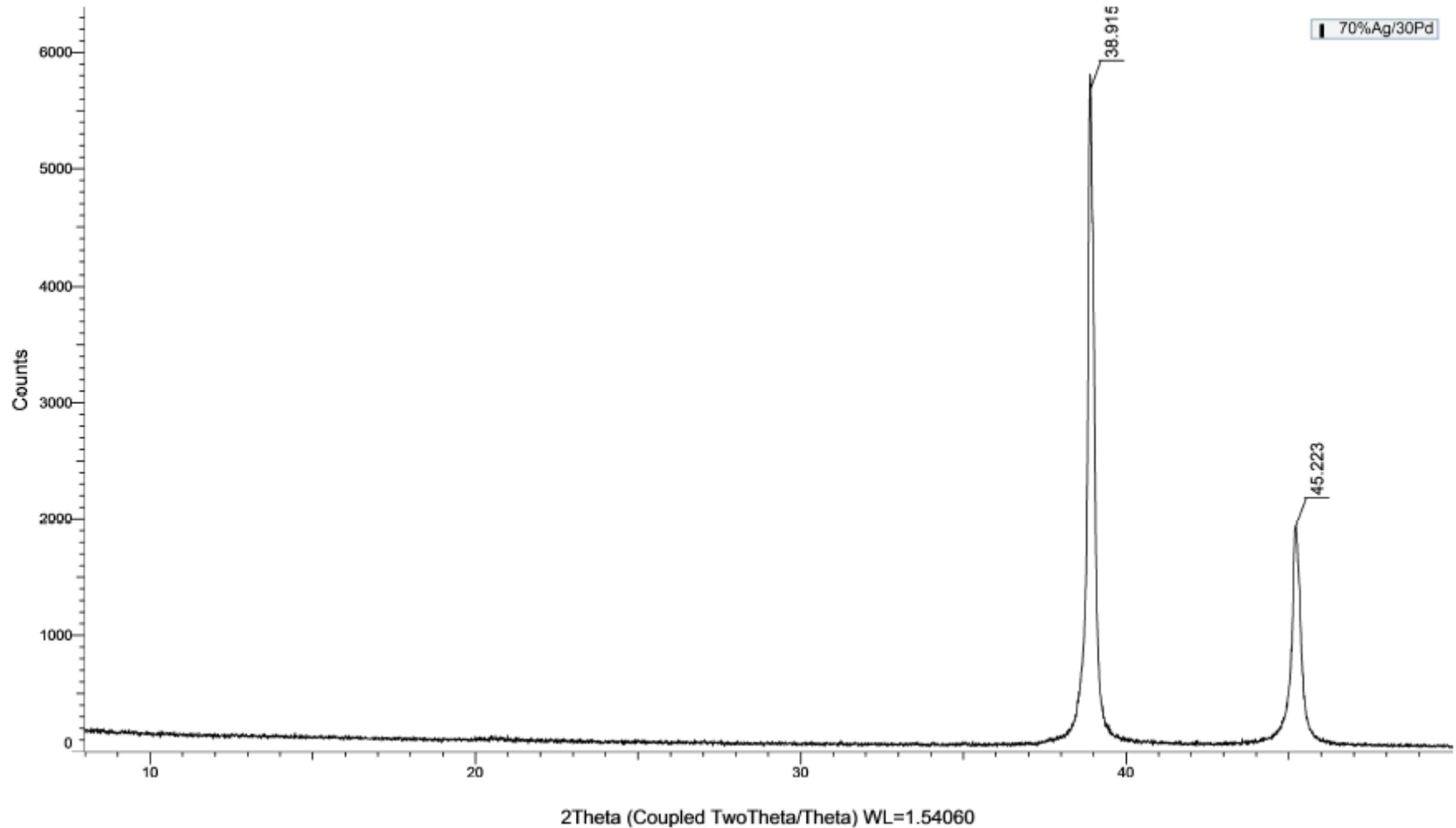


## Ag-Pd Powders – PSPTR-M series Technical Features

| Data                            | 70/30              | 80/20    | 90/10    |
|---------------------------------|--------------------|----------|----------|
| Appearance                      | Fine powder        |          |          |
| Color                           | From grey to black |          |          |
| Ag content, % weight            | 70± 1,5            | 80 ± 1,5 | 90 ± 1,5 |
| Pd content, % weight            | 30 ± 1,0           | 20 ± 1,0 | 10 ± 1,0 |
| Bulk density g/ ccm             | 0,6                |          |          |
| Tap density g/ ccm              | 0,8                |          |          |
| Specific surface area, sq. m/ g | 3500 - 10000       |          |          |
| PSD D90 (µm)                    | 3,0 - 6,5          |          |          |
| PSD D50 (µm)                    | 1,5 – 4,0          |          |          |
| PSD D10 (µm)                    | 0,7 – 1,5          |          |          |

## Ag-Pd Powders – PSPTR-M series Technical Features

PSPTR-M(Otjig) p.224 (Coupled TwoTheta/Theta)





**MONOCRYSTAL**

**Thank you  
for your  
attention!**

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