

# **Micropacked MS**

## **For Gas Chromatography**

### **INSTRUCTION MANUAL**

This product is a separation column designed for use in gas chromatographs. Do not use this product for any other purpose. Please read the following precautions in order to use this product correctly.

#### **1. Instructions**

##### **When unpacking this column**

- Remove the column from its box by pressing down on the round foam rubber sheet located in the center of the column and pulling the column frame towards you. Exercise care when removing the column from its box, as the connection tubes attached to the ends of the column may spring back. When using this column, wear protective equipment including gloves and safety glasses, and exercise care in handling.

##### **When using this column**

- Avoid bending this column excessively. Excessive bending can lead to crushing of the packing material inside the column and emissions of fine particles from the column.
- Do not allow kinks to form in the connection tubes attached to each end of this column. Kinks in connection tubes can lead to carrier gas leaks and blockages.
- The maximum operating temperature for this column is 250°C. Do not subject this column to temperatures higher than 250°C.
- When using this column at a temperature of 70°C or higher, do not turn off the carrier gas.

##### **When connecting this column to gas chromatographs**

- As with general capillary columns, this column can be connected to gas chromatographs using ferrules. Please use wide-bore capillary column (0.53 mm I.D.) ferrules in order to connect this column.
- In the case of gas chromatographs that employ automatic flow controllers or analytical software to control carrier gas flow rates, actual carrier gas flow rates and split ratios, etc. will differ from values displayed. Enter dummy column dimensions (e.g., length: 250 m, inner diameter: 0.5 mm, film thickness: 20 µm) in order to achieve an appropriate level of carrier gas pressure and normal gas chromatograph control (no error outputs). When accurate carrier gas flow rates and split ratios are required, use a flow meter, etc. to measure the gas flow rates from the column and split outlets.

## 1. Column Specifications

Name	Micropacked MS
P/N	MP-03
Dimensions	2.0 m x 1.27 mmO.D. x 1.0 mmI.D. Stainless steel
Packing material	MolecularSieve 5A 80/100 mesh
Connection tubes	0.5m x 0.52 mmO.D. x 0.30 mmI.D. Stainless steel
Max. operating temperature	250°C

Please be aware that column specifications may change without prior notification due to the implementation of improvements.



50-2 Kagekatsu-cho, Fushimi-ku, Kyoto 612-8307 JAPAN

TEL 075-621-2360 URL <https://shinwa-cpc.co.jp>