

Selection Guide for Transducer Applications

MATERIALS LIST

- Solvent cleaners
- Water-based cleaners
- Surface-abrasion materials
- Special-purpose materials

For proper bonding of strain gages and compensation resistors, the surface of the transducer must be chemically clean and totally free of contaminants before applying the adhesive. Instruction Bulletin B-130 lists applicable cleaning materials and techniques for the use of M-Bond 610 and 43-B adhesives. For surface cleaning in "production-line" transducer manufacturing, refer to alternate cleaning procedures outlined in Micro-Measurements publication, "Strain Gage Installation Procedures for Transducers," a copy of which is available upon request.



SOLVENT CLEANERS	
MODEL/PART NO.	TYPE/DESCRIPTION
CSM-3	Degreaser: A powerful environmentally friendly degreaser. Readily attacks general-purpose lubricating and hydraulic oils. Non-flammable. 20-oz (0.56-kg) pressured spray can. Dispensing solvents from "one way" containers prevents contamination buildup.
GC-6	Isopropyl Alcohol: Frequently used as a solvent degreaser where other solutions are restricted. Flammable. 4-oz (120-ml) bottle.

WATER-BASED CLEANERS	
MODEL/PART NO.	TYPE/DESCRIPTION
CONDITIONER A: A mild phosphoric acid compound. Acts as a mild etchant and accelerates the cleaning process.	
MCA-1	2-oz* (60-ml) plastic squeeze bottle with on/off dispenser nozzle cap.
MCA-2	Same as MCA-1 except 16 oz (0.5l).
NEUTRALIZER 5A: An ammonia-based material. Neutralizes any chemical reaction introduced by Conditioner A, and produces optimum surface conditions for most strain gage adhesives.	
MN5A-1	2-oz* (60-ml) plastic squeeze bottle with on/off dispenser nozzle bottle cap.
MN5A-2	Same as MN5A-1 except 16 oz (0.5l).

*Note: The 2-oz (60-ml) size is recommended for bench use and is easily refilled from the 16-oz (0.5-l) bottle.

Selection Guide for Transducer Applications

SURFACE-ABRASION MATERIALS	
Abrading is often necessary to dislodge contaminants and to remove rust, scale, etc. When grit-blasting, use fine alumina powder and high-quality filters, and never recycle used grit. Silicon-carbide paper may be used as an alternate to grit blasting.	
MODEL/PART NO.	TYPE/DESCRIPTION
SCP-1	220-grit Silicon-Carbide Paper: Suited to most steels. 1 in x 100 ft (25 mm x 30 m) roll.
SCP-2	320-grit Silicon-Carbide Paper: Suited to most steels. Also suited to aluminum alloys and other soft metals. 1 in x 100 ft (25 mm x 30 m) roll.
SCP-3	400-grit Silicon-Carbide Paper: Suited to aluminum alloys and other soft metals. 1 in x 100 ft (25 mm x 30 m) roll.
GC-5	Pumice Powder: Produces a dull, matte finish. Recommended for minimal removal of surface material. 1/2 oz (15 ml) bottle.

SPECIAL-PURPOSE MATERIALS	
MODEL/PART NO.	TYPE/DESCRIPTION
CSP-1	Cotton Tip Applicators: 100 single-ended applicators per package [6 in (150 mm) long, wooden stick].
GSP-1	Gauze Sponges: 200 sponges [3 x 3 in (75 x 75 mm)] per package.

Disclaimer

ALL PRODUCTS, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Vishay Precision Group, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "VPG"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

The product specifications do not expand or otherwise modify VPG's terms and conditions of purchase, including but not limited to, the warranty expressed therein.

VPG makes no warranty, representation or guarantee other than as set forth in the terms and conditions of purchase. **To the maximum extent permitted by applicable law, VPG disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.**

Information provided in datasheets and/or specifications may vary from actual results in different applications and performance may vary over time. Statements regarding the suitability of products for certain types of applications are based on VPG's knowledge of typical requirements that are often placed on VPG products. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. You should ensure you have the current version of the relevant information by contacting VPG prior to performing installation or use of the product, such as on our website at vpgsensors.com.

No license, express, implied, or otherwise, to any intellectual property rights is granted by this document, or by any conduct of VPG.

The products shown herein are not designed for use in life-saving or life-sustaining applications unless otherwise expressly indicated. Customers using or selling VPG products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify VPG for any damages arising or resulting from such use or sale. Please contact authorized VPG personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.

Copyright Vishay Precision Group, Inc., 2014. All rights reserved.