

## 3991 - Shieldoseal

Shieldoseal is a 65-durometer adhesive sealant, filled with electrically conductive particles. The sealant will cure within 24 hours, but ultimate physical properties could take up to 72 hours to develop. Shieldoseal should adhere excellently to most substrates

### Shieldoseal for EMI shielding

One of the applications of Shieldoseal is EMI shielding. Shieldoseal has excellent filling properties, therefore almost any surface can be filled up. Shieldoseal cures quickly at room temperature. When fully cured, the substance remains as elastic as rubber and is homogenously conductive. In addition, it especially distinguishes itself from other substances by a high level of heat conductivity. Shieldoseal is pasty and can be used to glue metals (copper, aluminium, stainless steel, brass, etc.), ceramics and most plastics. Properties for individual applications are listed in the table below.



*3991 Shieldoseal comes in 130 gram plastic cartridges*

### Specifications Nickel graphite filled conductive 1-component sealing

Specification	Part number 3991
Conductive particles	Nickel graphite
Shore A	65
Tensile Strength	250 psi
Specific Gravity	2.2
V.R. Ohm-cm	0.001
Color	Gray
Shelf life	Six months from date of manufacture
Handling/Safety	MSDS information is available on request



*Nickel graphite filled conductive 1-component sealing can be supplied with a sealant gun to easily handle the product*

### Conductive adhesive

Specification	Unit	3991
Metal with metal		Good
Metal with RFI gasket		Good
RFI gasket with RFI gasket		Good
Viscosity upon delivery		Viscous
Toluene solvent	N/cm	5
Catalyst	21 C	Air humidity
Resistance against	UV, ozone	Yes
Storage time: plastic cartridges	Weeks	2
Storage time: aluminium	Weeks	8



*Shieldoseal 3991 sealant gun. The sealant gun is available separately on request*

### Curing

Specification	Unit	3990/3991
Curing at room temperature	21 C	Yes
Film formation at 0,2 mm strength approx.	Minutes	1 - 4
Curing at 0,2 mm strength approx	Minutes	5 - 20
Curing based on film strength and venting surface approx.	Minutes	3 - 180
Odorless		No

Part number	Contents (gr)
3991	3991 comes in 130 gram - plastic cartridge *other cartridges on request