

THREAD MASKING & PROTECTION

The sheet metal workers and sheet metal formers face the **problem of weld spatters or excess of paint which adhere to the threads.**

The most common solution is to mask the threads before welding or painting. They use caps or special plugs in order to protect the threads. Another well-known solution consists in cleaning the threads by re-tapping.

These extra-operations are costly and difficult to apply. It can happen that the threads become definitively damaged.

An industrial and economic solution exists which we have been using for many years in the automotive industry:
Our high-speed machines apply on the threads a dry film (omniMASK®) to prevent weld spatter, electro-deposited paints, primers or coatings from adhering to the threads.
These treated parts do not need to be thread masked by plugs or caps nor to be re-tapped.



OmniMASK®: THREAD MASKING AND PROTECTION OF THREADED FASTENERS

OmniMASK® is a thin masking layer which prevents from the adhesion of weld spatters and paint deposit.

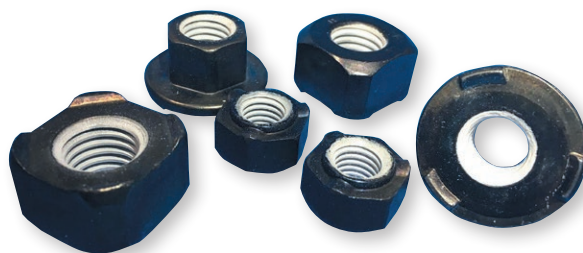
OmniMASK® can be applied on different types of threaded parts such as: screws, weld and self-clinching studs, weld and self-clinching nuts...

OmniMASK® is a white FEP Fluoropolymer powder coating which consists at 98% of Teflon. This dry film enables a better screwing installation due to its low coefficient of friction.

OmniMASK® is applied by projection of a powder on pre-heated parts via induction coil.

The process temperature of OmniMASK® is lower (-50°C) than equivalent competitive products. Due to its lower melting temperature, it can be applied on most of the surface plating types.

The parts are coated at our plant and can then be used without specific caution.



Designation	Diameter	Type
PIN	M4 to M12	Welding or clinching All type of head
NUT	M6 to M14	Welding or clinching Round or square head

ADVANTAGES

- Prevents from adhesion of electrodeposited paints and primers on the threaded area of fasteners.
- Prevents from adhesion of weld spatter.
- **Eliminates the expensive manual operation** of installing and removing caps and plugs.
- Can be applied onto internal or external threads.
- Can be used on a wide range of materials and surface treatments.
- Solvent resistant and high temperature compatibility.
- Eliminates scrap and **reduces significantly the total manufacturing cost.**
- Allows to control the coefficient of friction and torque.



CHARACTERISTICS AND PRODUCTS

Material	Powder Teflon® FEP
Color	White
Coefficient of friction	0.09-0.15



QUALITY

Our processes are ISO 9001 certified and fulfill specific requirements of the automotive industry.



APPROVALS

OmniMASK® is highly used for automotive applications. It has been approved by the following specifications:

- GMW15822
- WWS-M12P27 A3
- FCA PS.50015
- DAIMLER MBN10391
- VW TL188