

# WR 90 NewGeneration

## TAIL SEAL GREASE FOR FIRST FILLING



### PRESENTATION

**WR 90 NewGeneration** is a **fire resistant** grease dedicated to the first filling of the wire brushes of the tunnelling machines tail seals. Other operations such as welding or cutting can happen simultaneously without any risk of fire.

**WR 90 NewGeneration** is injected inside the wire brushes prior to build the first segment ring. It remains in the brushes throughout the duration of the project providing maximum protection to the brushes.

During excavation **WR 89 NewGeneration** is pumped in the chambers delimited by the rows of brushes. **WR 90 NewGeneration** and **WR 89 NewGeneration** are perfectly compatible and fire resistant.

### ADVANTAGES

**WR 90 NewGeneration** offers many advantages such as :

- Fire resistance
- Resistance to water and Waterlogging (wash out)
- Resistance to grouts
- Combined Resistance to wash out and creep
- Compressibility
- Adhesion to metal surface
- Conservation of brush elasticity
- Cohesion to itself
- Consumption (10 kg/m linear)

These combined properties ensure a perfect sealing of the TBM with no leakage.

Eventhough **WR 90 NewGeneration** presents a high consistency **WR 90 NewGeneration** is pumpable, so as to ensure a perfect filling of the brushes.

**CONDAT** recommends to use a lance and to approach a pump close to the brushes to perform the filling rather than doing it manually.

### CHARACTERISTICS

Characteristics	Units	WR 90 NewGeneration
Colour		Beige
Odour		None
Appearance		Fibrous
Consistency at 25°C		190-220
Density at 20°C		1.30 ± 0.05
Base Oil fire point	°C	> 250
Use Temperature	°C	≤ 50
Torch test		Non flammable
Creep at 25°C as per MC 11	min	≥ 30
Waterlogging, depending on method ASTM D4049, synthetic seawater at 38°C	%	≤ 7
Oil retention - Permeation width	mm	12
Waterproof, as per Matsumura method (35 bar)		Passes

**WR 90 NewGeneration**

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Fiches de sécurité disponibles sur [www.condat.fr](http://www.condat.fr)  
Company certified ISO 9001  
Safety data sheets available on [www.condat.fr](http://www.condat.fr)

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**CONDAT**

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Ces informations ne peuvent être considérées comme engageant notre responsabilité en cas d'application défectueuse. Des essais préalables à chaque utilisation doivent être effectués.

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