

# 17AS.002

## Graphite coatings

### Summary

### Overview

#### SUMMARY

#### OVERVIEW

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**Graphite aerosol**

**Graphite suspension**

Graphite is made of elementary carbon (C), and hexagonal crystalline structure. It is composed by graphene layers that give it anisotropic physical properties. Graphite products are appreciated because of their high temperature resistance and of their thermal and electrical conductivity. This soft and flexible material is characterized by a black or grey-black color.

Graphite is found at natural state as flakes in sediments, as veins or amorphous. Graphite synthesis enables to obtain purer qualities, perfect for technical components.

Final Advanced Materials proposes graphite packed into aerosol, alcohol suspension or water suspension. The graphite coating is non-permanent.

### Applications

- Surfaces treatment
- Lubricating agent for
  - metallic pieces
  - plastic pieces
  - rubber pieces without greasy substances

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## Products

### Graphite aerosol

Graphite aerosol enables lubrication of metal, plastic or grease-free rubber pieces. Its binder allows to fix, on different materials, a graphite powder film with a very thin granulometry almost without overthickness.

**Caution, this graphite aerosol is an electrical conductor.**

### Applications

- Cure lubrication for all materials
- Anti-seizing for all materials
- Demolding

### Technical data

Properties	Unit	013-0001
UN code		UN 1950
Aspect		Liquid, black
Solid content	%	25
Density	g/m <sup>3</sup>	0.87
Average granulometry	µm	2
Flash point	°C	< 21
Temperature stability*	°C	-15 to 1,500

\* Indicative values, may vary depending on the application conditions. Under vacuum or inert gas only.

### Instructions for use

- Use on clean and degreased surfaces.
- Shake the aerosol before use.
- Spray approximatively at 20 cm.
- Let dry a few minutes.

### Dimensions

- Aerosol 650/400 ml.

### Graphite suspension

Graphite suspensions are used to lubricate metallic, plastic or grease-free rubber pieces. Their binder enables to fix, on these different materials, a film of graphite powder of very fine granulometry almost without over thickness.

**Caution, those graphite suspensions are electrical conductors.**



# Graphite coatings

## Applications

- Cure lubricating agent for all materials
- Anti-seize
- Demolding agent

## Technical data

Properties	Unit	013-0002	013-0003
Solvent		ethanol	water
Aspect		Black liquid	
Solid content	%	25	15
Density at 20 °C	g/m <sup>3</sup>	0.9	1.08 ± 0.01
Viscosity	mPa.s	-	600
Average granulometry D <sub>50</sub>	µm	2.2	± 10
Flash point	°C	16	NA
Temperature stability*	°C	Between -15 to 1,500	-50 to 1,100

\* Indicative values, may vary depending on the application conditions. Under vacuum or inert gas only.

## Dimensions

		013-0002	013-0003
Dimensions		Contact us	Container of 30 L Barrel of 200 L Other: contact us

## Implementation

- Clean surfaces to be coated, remove melting or welding spatter.
- Spray or apply with a brush.
- Apply in thin layers.
  - If the film is too thick, it may break.
  - It is recommended to overlay several thin cured layers.

## Storage

- Keep the product in its original closed packaging in a closed dry premises at a temperature between +5 °C and +30 °C.
- Shelf life: 12 months at 20 °C, in its original closed packaging.
- Protect from freezing.

Physical variables included in this documentation are provided by way of indication only and do not, under any circumstances, constitute a contractual undertaking. Please contact our technical service if you require any additional information.