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## TECHNICAL DATA SHEET

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### 1. USE

**SILUB 110/P** is a powder lubricant containing high quality synthetic graphite, adhesion additives and film-forming components.

**SILUB 110/P** has been developed to withstand the high pressure, the high temperature and friction that take place during the PQF and FQM rolling mill process of seamless pipes production.  
For each mill process a tailor made mandrel lubricant formulation is available.

**SILUB 110/P** for its excellent lubricating action promotes high standards of performance and quality of the internal surface of the pipes, reduces costs and increases productivity.

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### 2. CHEMICAL PHYSICAL PROPERTIES

#### POWDER LUBRICANT

Appearance:	Powder
Color:	Black
Graphite particle size distribution:	95 % < 80 µm 50 % < 40 µm

#### LUBRICANT TO THE LIQUID STATE (DISPERSION : 27% POWDER / 73% WATER)

<b>Viscosity at 20°C</b> (Brookfield Viscosimeter Mod. LVDV2T Extra Spindle n°2; rpm 30; temp.=20°C ± 0,5; time=60 sec.):	350 ± 100 mPas
pH:	> 7
Solids:	22 ± 2 % of graphite
Density at 20°C	1,1 ± 0,1

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### 3. PREPARATION

**SILUB 110/P** has to be diluted with water, better if drinkable, in a mixing ratio of 27 % powder in 73 parts of water.  
**SILUB 110/P** has to be added gradually to the water under agitation.  
The viscosity, tested with Brookfield Viscosimeter, can be readjusted by adding water or **SILUB 110/P**

## 4. APPLICATION

**SILUB 110/P** is applied with a spraying system on the mandrel having a temperature between 90 and 120°C, using aerless pumps with a pressure of 20/100 bar. The consumption of SILUB 110/P depends on the spraying pressure, the diameter of the spraying nozzle and the translation speed of the mandrel bar. The SILUB 110/P has a faster drying time compared to other common lubricants and the film obtained presents hard, compact and not washable away.

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## 5. STANDARD PACKAGING

- 300 kg big bag, 3 - 4 big bags on one pallet (900 - 1.200 kg)
  - 600 kg big bag, 2 big bags on one pallet (1.200 kg)
  - 20 kg paper bags
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## 6. STORAGE

**SILUB 110/P** has to be stored in a cool dry and ventilated place far from heating sources. Under these conditions it may be stored for 2 years. Storage temperature of the liquid product has not to be under 0°C and should not exceed 40°C in order to prevent the degradation of the dispersion. Freezing has to be avoided in any case. Once prepared the dispersion should be used within one week.

The descriptions and technical slight knowledge contained herein have pure informative character and they do not constitute specific

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