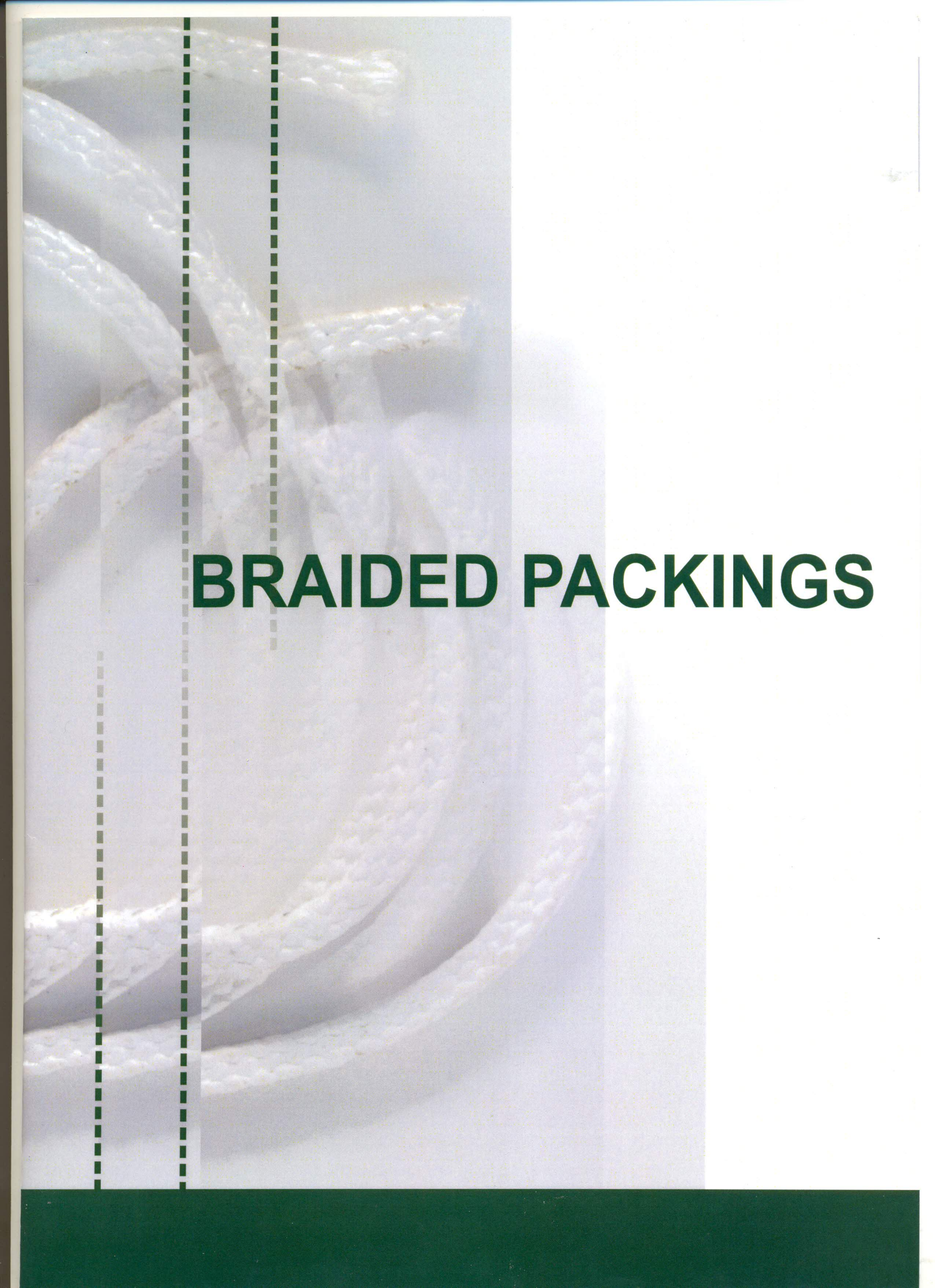


A close-up photograph of white braided packing material, showing the intricate woven texture of the fibers. Two vertical dashed lines are superimposed on the left side of the image. The title 'BRAIDED PACKINGS' is centered in a bold, dark green font. A solid dark green horizontal bar is located at the bottom of the page.

# **BRAIDED PACKINGS**

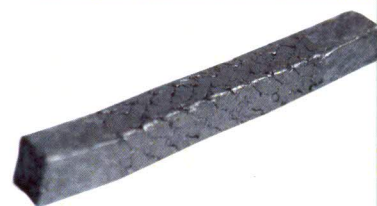
# SEALS MANUFACTURER

## GRAFEX GS

Grafex GS packing is made of flexible graphite without any binders or resins and no metal wire filaments.

### Technical features:

- Fluid temperature: -200°C...+450°C (oxidating enviroment)  
-200°C...+650°C (for steam);
- Fluid pressure: maximum 25 bars for centrifugal pumps;  
maximum 10 bars for reciprocating pumps;  
maximum 300 bars for valves (1500 bars using antiextruding rings);
- Linear speed: maximum 25 m/s for centrifugal pumps;  
maximum 10 m/s for reciprocating pumps;
- PH: 0...14.



GS

## GRAFEX GA

Grafex GA packing is made of yarns of exfoliated pure graphite, reinforced with stainless steel wire.

### Technical features:

- Fluid temperature: -200°C...+550°C (oxidating enviroment);  
-200°C...+650°C (for steam);
- Fluid pressure: maximum 450 bar (500 bars for Grafex G2A);
- Linear speed: maximum 25 m/s for centrifugal pumps;  
maximum 10 m/s for reciprocating pumps;
- PH: 0...14.



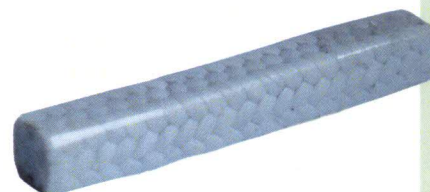
GA

## GRAFEX T1

Grafex T1 packing is made of PTFE yarn, impregnated with PTFE dispersion and siliconic oil.

### Technical features:

- Fluid pressure: maximum 10 bar for centrifugal pumps;  
maximum 60 bar for reciprocating pumps;  
maximum 100 bar for valves;
- Fluid temperature: -50°C ... +280°C;
- Linear speed: maximum 8 m/s for centrifugal pumps;  
maximum 2 m/s for reciprocating pumps;
- PH: 0...14.



T1

## GRAFEX A1

Grafex A1 packing is made of aramide yarns, impregnated with PTFE dispersion and siliconic oil.

### Technical features:

- Fluid pressure: maximum 25 bar for centrifugal pumps;  
maximum 100 bar for reciprocating pumps;  
maximum 250 bar for valves;
- Fluid temperature: -100°C ... +280°C;
- Linear speed: maximum 25 m/s for centrifugal pumps;  
maximum 2 m/s for reciprocating pumps;
- PH: 2...12.



A1

## GRAFEX RP1

Grafex RP1 packing manufactured from ramie yarn with special PTFE, impregnation.

### Technical features:

- Fluid pressure: maximum 25 bar for centrifugal pumps;  
maximum 50 bar for reciprocating pumps;  
maximum 100 bar for valves.
- Fluid temperature: -50°C ... +140°C;
- Linear speed: maximum 6 m/s for centrifugal pumps;  
maximum 2 m/s for reciprocating pumps;
- PH: 5...9.



RP1

### GRAFEX ACRYL 1 SUPRA

Grafex ACRYL 1 SUPRA packing manufactured from ramie yarn with special PTFE impregnation.

#### Technical features:

- Fluid pressure: maximum 20 bar for centrifugal pumps; maximum 20 bar for reciprocating pumps; maximum 50 bar for valves.
- Fluid temperature: -20°C ... +230°C;
- Linear speed: maximum 10 m/s for centrifugal pumps; maximum 2 m/s for reciprocating pumps;
- PH: 2...12.

### GRAFEX T1-A1

Grafex T1-A1 packing is manufactured from PTFE yarn with all four corners reinforced with aramid.

#### Technical features:

- Fluid pressure: maximum 20 bar for centrifugal pumps; maximum 300 bar for reciprocating pumps; maximum 500 bar for valves.
- Fluid temperature: -100°C ... +280°C;
- Linear speed: maximum 10 m/s for centrifugal pumps; maximum 2 m/s for reciprocating pumps;
- PH: 2...12.

### GRAFEX TG1

Grafex TG1 packing is manufactured from PTFE yarn with incorporated graphite, impregnated with PTFE and graphite dispersion.

#### Technical features:

- Fluid pressure: maximum 25 bar for centrifugal pumps; maximum 150 bar for reciprocating pumps; maximum 200 bar for valves.
- Fluid temperature: -200°C ... +280°C;
- Linear speed: maximum 20 m/s for centrifugal pumps; maximum 2 m/s for reciprocating pumps;
- PH: 0...14.

### GRAFEX TG1-A1

Grafex TG1-A1 packing is manufactured from PTFE yarn with incorporated graphite, impregnated with PTFE and graphite dispersion, with all four corners reinforced with aramid.

#### Technical features:

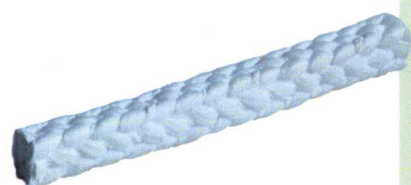
- Fluid pressure: maximum 25 bar for centrifugal pumps; maximum 300 bar for reciprocating pumps; maximum 500 bar for valves.
- Fluid temperature: -100°C ... +280°C;
- Linear speed: maximum 25 m/s for centrifugal pumps; maximum 2 m/s for reciprocating pumps;
- PH: 2...12.

### GRAFEX CERA

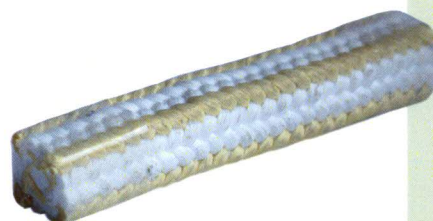
Grafex CERA packing manufactured from ceramic yarns.

#### Technical features:

- Fluid temperature: +850°C (+1200°C);
- PH: 5...11.



ACRYL



T1-A1



TG1



TG1-A1



CERA



ETANSARI GRAFEX is a Romanian private company, established in 1996. We manufacture and supply sealing products for any application, from the most common to nuclear industry:

- ✓ *braided packings*
- ✓ *corrugated strip*
- ✓ *spiral wound gaskets*
- ✓ *sheets and plate gaskets*
- ✓ *ring sets and preformed gaskets*
- ✓ *corrugated and grooved gaskets*
- ✓ *grafoil gaskets*
- ✓ *PTFE products*

The materials our company processes are 100% ecological friendly and asbestos free.

Our company has implemented and maintains a quality management system which fulfills requirements of the standard **SR EN ISO 9001:2001**.

Our products comply with the **ANSI, DIN, BS** and **API** requirements.



SR EN ISO 9001:2008  
SR EN ISO 14001:2005  
SR OHSAS 18001: 2008