

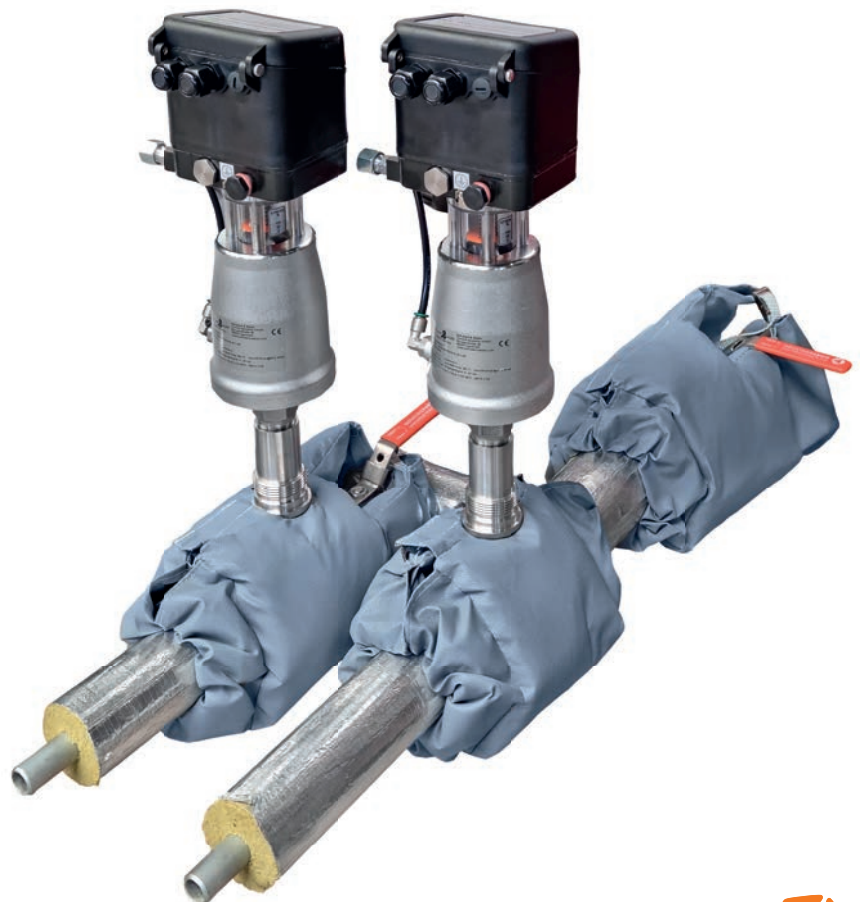
THERMAL INSULATION FOR INDUSTRIAL SYSTEMS

IFS-PLAST25

Insulation mats for valves

IFS-MW20

High temperature
thermal insulation for pipes



IFS-PLAST25 – Insulation E-glass needle mats

Thermo E-glass needle mats of **Type IFS-PLAST25** enable the subsequent industrial thermal insulation of industrial fittings and flexible pipelines. **IFS-PLAST25** is particularly suitable for use in steam packs for tire curing presses. They are manufactured precisely for the respective valve or pipeline. A velcro fastener is an easy one and quick assembly guaranteed. Closing tapes and buckle fasteners seal the transition to the pipeline or fitting.

Insulation material: thermo E-glass needle mats with velcro fastener / buckle closure

Temperature: up to 550 °C

Material thickness: 20 mm (pipes); 25 mm (industrial valves)



- » **Main features:** high thermal resistance and excellent electrical insulation properties; non-flammable, reusable, sound-absorbing, lowers energy costs and reduces the room temperature; suitable for industrial thermal insulation
- » **Applications:** precise, easy assembly for numerous fittings such as ball valves, angle seat / control valves, industrial filters with flange, thread / welding end; special variants for flexible pipes, steam hoses, pressure hoses



Data sheet IFS-PLAST25

Density:	Valves Pipes	560 g/m ² – filling E-glass: 140 kg/m ³ 660 g/m ² – filling E-glass: 120 kg/m ³						
Temperature:	Valves Pipes	up to 550 °C up to 550 °C						
Material:	ISO-PTFE							
Thermal conductivity DIN EN 1094 (W*m ⁻¹ *K ⁻¹):	Volume weight [kg/m ³]	50°C	100°C	200°C	300°C	400°C	500°C	
		130	0,039	0,044	0,057	0,075	0,097	0,121
		160	0,041	0,046	0,060	0,078	0,100	0,125
Fire class:	A2 - according DIN 4102; B1 - velcro fastener							
Adhesive liquid:	< 2%							
Filament diameter DIN 53811:	≥ 6 µm							
E-glass fiber raw material:	> 98%							



IFS-MW20 – High temperature thermal insulation

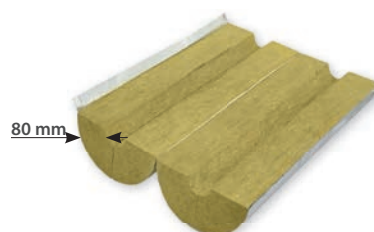
IFS Mineral Wool **Type IFS-MW20** is a strong and rigid slab, with very high density used for superior thermal performance and increased fire protection. Our high temperature thermal insulation reduces energy costs and lowers the room temperature. Despite the fact that hydrophobing additives in the insulation impede the ingress of water, it is necessary to protect the material against moisture and possible mechanical damage by a proper manner.



- » **Main features:** suitable for high temperatures, high density for strong mechanical loads; very low water absorption; system certificate for fire protection according to EN 13381-3:2015; pipe sections are designed to fit all standard pipe size
- » **Applications:** pipes and valves thermal insulation of steam packages for tire curing presses; pipelines in construction of power plants, chemical plants; technical equipment pipes (heat pumps, condensing units, industrial water, etc.)
- » **Optional:** elbow cover, insulation box for all types of valves and flanges of standard sizes, plates in 20 / 40 / 60 mm thickness

Data sheet IFS-MW20 pipe sections

N. diameter:	DN10 ... DN200
Material:	mineral wool with aluminum foil sheathing
Medium temperature:	up to 700 °C
Material thickness:	20 / 30 / 50 / 80 mm (more on request)



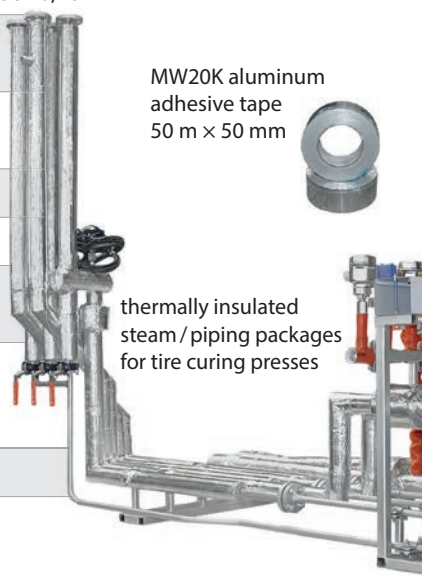
Density:	190 kg/m ³		EN 1602 & 13470						
Thermal conductivity			EN 12667						
Temperature [°C]:	50	100	200	300	400	500	600	700	
Thermal conductivity [W/mK]:	0,044	0,048	0,059	0,073	0,091	0,113	0,138	0,167	
Pipe diameter:	15 ... 612 mm		< 150 mm: MW-EN 14308-T8						
Insulation thickness:	15 ... 200 mm		≥ 150 mm: MW-EN 14303-T9						
Medium temperature:	≤ 700 °C		EN 14707:2005						
Temperature alu side:	≤ 100 °C								
Specific heat capacity (c _d):	800 J/kgK								
Short term water absorbtion (W _p) WS:	<<1 kg/m ²		EN 1609						
Compressive stress at 10% deformation (σ ₁₀) CS (10)	≥ 80 kPa		EN 826						
Behaviour in fire unlaminated:	A1 ₁		EN 13501-1						
laminated with alu foil:	A2 ₁ –s1, d0								
Melting temperature:	≥ 1000 °C		DIN 4102						



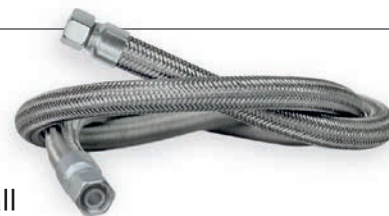
MW20K aluminum adhesive tape
50 m × 50 mm



thermally insulated steam / piping packages for tire curing presses



IFS 2030T – PTFE Steam hoses



- » **Main features:** Suitable for high temperatures resistant to almost all hydraulic fluids and chemicals
- » **Applications:** Medium-pressure applications with hydraulic fluids at high temperatures and with aggressive media for the chemical industry, surface technology, 2-component systems. The inner layer material complies with FDA 21 CFR177.1550.
- » **Optional:** different variants for saving energy and reducing the room temperature, different connections, protective spiral, customer-specific length

Smooth hose V70

N. diameter:	DN5 ... DN25; Size: -03 ... -16
Core tube:	Polytetrafluoroethylene
Pressure reinforcement:	one braided layer of stainless steel wire
Temperature range:	-50 °C ... +150 °C permanent temperature, +230 °C at working pressures up to 2 MPa



Convolut hose CON

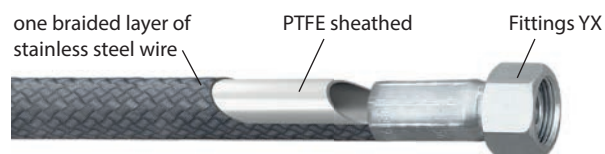
N. diameter:	DN6 ... DN32; Size: -04 ... -20
Core tube:	Polytetrafluoroethylene
Pressure reinforcement:	one braided layer of stainless steel wire
Temperature range:	-70 °C ... +230 °C



Steam hose with
IFS-PLAST25 insulation
for tire curing presses

INDUSTRIEFABRIK
VALVES, FITTINGS, PLANTS, STRAINERS

IFS-2030T-XXXXX – **Standard**
one braided layer of stainless steel wire
smooth / convoluted hose



IFS-2030T-XXXXX-**PLAST 25**
one braided layer of stainless steel wire covered
with E-glass needle mats **Type IFS-PLAST25**,
fastening with velcro and buckles



IFS-2030T-XXXXX-**FS**
one braided layer of stainless steel wire
with silicon fire sleeve HSS-PY



Complete hoses with fittings of various models and types for purposes
using ready-made **Parker Hannifin Corporation** components.



HSS-PY – Silicone heat protection hose

The glass fabric with a silicone coating gives the material excellent insulation values and offers very good resistance to most industrial chemicals and hydraulic oils. **HSS Typ PY** remains mechanically highly resilient at all times and has good abrasion resistance.

Insulating material:	E-glass filament yarn with silicone coating
Temperature:	steady state at approx. 260 °C, 15–20 minutes at approx. 1090 °C
Insulation thickness:	approx. 5 mm
N. diameter:	DN inner diameter 6 ... 114 mm on roll 15 / 30 m

» **Main features:** The coating offers ideal protection against liquid metal spatter, welding sparks and short-term exposure to flames. Hot media roll off the surface so that they cannot form incrustations. The material is asbestos-free and not hazardous to health.

» **Applications:** Effective protection of pipelines, cables and flexible hoses in many areas of the chemical industry, rubber and tire industry, in aircraft and shipbuilding, in oil refineries, in steel and metallurgical works and much more.



valves thermal insulation

IFS-PLAST25 for

flexible pipes, steam hoses,
ball valves, control valves, strainers

pressure hose /
steam hose

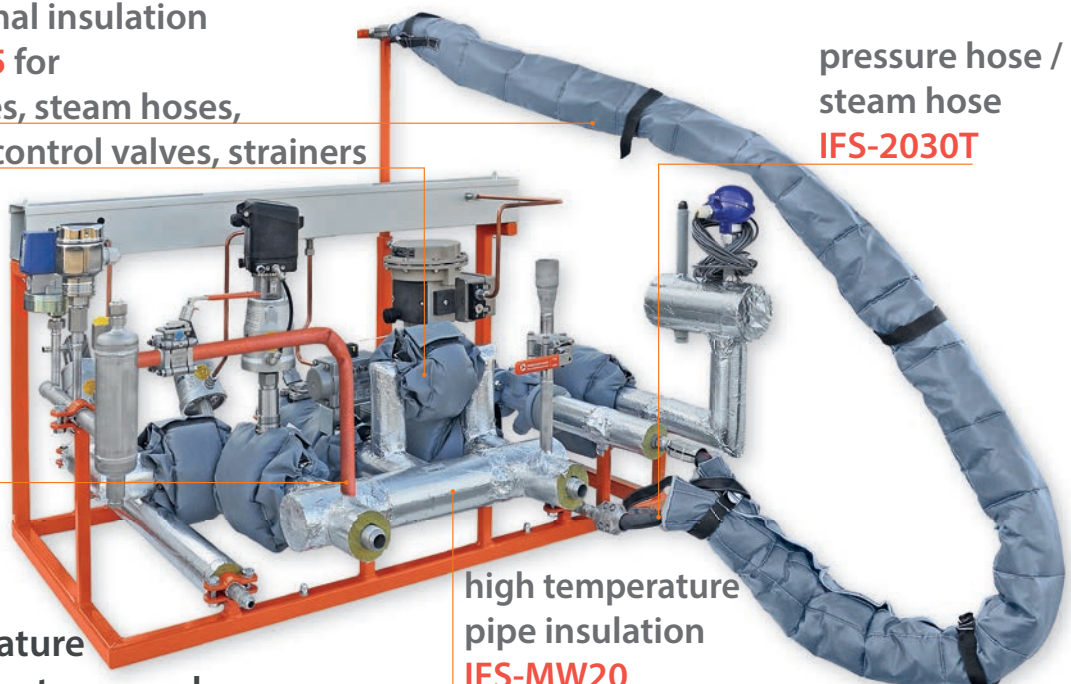
IFS-2030T

silicone heat
protection
hose

HSS-PY

high temperature
insulation for steam packages

high temperature
pipe insulation
IFS-MW20





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- ✦ Pressure transducer
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- ✦ Sight glass
- ✦ Sediment pot
- ✦ Thermometer
- ✦ and much more



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