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Jabitherm FIRESAFE

The protection of human beings and industrial sites stands always in forefront of planning and construction work. This is typical and important for areas declared as under special legality of potential hazardous and explosive from the beginning.
A special process condition is the occurrence of fire. Here the experience confirmed: Not the source of the fire is mainly threatening. Itôs the rapid spread of fire and extreme heat!

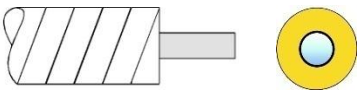
Industrial companies try to avoid this by installing latest fire-fighting systems. Thereby fires can be embanked quickly and effectively, as long as the remaining time allows it!
Most valuable in fact and that is where the focus has to be set on, is pipeline and transported medium. In most cases the fire is not caused by the pipeline. Also the insulation material does not support the spread of fire. But the rule is: If the fire is left to act destructively on the pipeline and medium, explosions and the complete ruin of the industrial site might result! A nightmare for management and responsible staff on site!

The construction of the new product series **FIRESAFE** sets new standards for Ăactive fire protection for industrial sitesñ. The combination of insulation materials and layers of metal sheathing leads to advanced performance in case of fire.
The system is based on the coking process of PU-foam. Fire penetrated foam creates a protective and stable layer, similar to the behavior of tree stumps on forest fires. The layer has the ability to absorb heat over a long time. Thereby stretches the rise time for the medium temperature inside the pipe and increases level of safety.

Tests carried out at public and independent test institutes create impressive results. By suitable combinations, guaranteed holding times of 90 minutes can be achieved (ñHolding timeò is defined as the time until temperature at medium pipe reaches 450°). Additional time for effective and active fire-fighting while increasing the safety level on your site for staff and equipment.

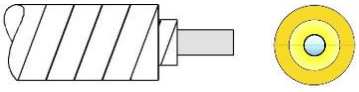
Product series FIRESAFE:

FIRESAFE-T30



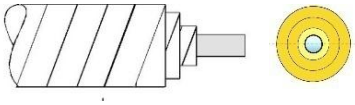
Pipe system of PU-foam, special fire protection additives and single sheathing.
Holding time: minimum 30 minutes.

FIRESAFE-T60



Pipe system with a combination of different PU-foam and a double sheathing.
Holding time: minimum 60 minutes.

FIRESAFE-T90



Pipe system with a combination of different PU-foam and a triple sheathing.
Holding time: minimum 90 minutes.

	mean temperature rise at the medium pipe (Load: UTTC*)								
	10 min	20 min	30 min	45 min	60 min	75 min	90 min	100 min	110 min
FIRESAFE-T30	42°	99°	190°	404°	-	-	-	-	-
FIRESAFE-T60	1°	5°	11°	52°	303°	450°	-	-	-
FIRESAFE-T90	1°	1°	3°	11°	18°	75°	262°	356°	433°

*UTTC : uniform-temperature-time-curve, acc. to DIN EN 1363-1, paragraph 5.1.1