techjack
Yalıtım Ceketleri

Vane and Armature Insulation Jackets

Techjack insualtion jacket can be used in insulation of vanes and armatures which have various diameters, found on hot and cold lines in indoor and outdoor mediums and which are produced in DIN, ANSI, API standards.

They are produced using insulation and fabric materials resistant to temperature between -20 ºC and1260 ºC depending on the fluid and surface temperature.

They are used to minimize heat losses occurring in heating lines and to prevent condensation in cooling lines. Techjack insulation jacket are comprised of fabric resistant to high temperature (fabric types vary depending on the surface on which application will be made and on weather conditions), insulation material (varies depending on the temperature of the place where application will be made), binding threads, stainless steel buckle, stainless steel wire and label.

The Advantages of Techjack Insulated Jackets

- High temperature resistant.
- Easy to pull out and to fasten.
- Can be used repeatedly.
- Very low cost of assembling.
- Non- Burnable.
- Easy to use in narrow areas.
- Long lasting.
- Makes equipments life longer.
- Do not include asbestos and cancerous substance.
- High quantity of energy saving is made by heat insulation.
- Prevents combustion on cooling systems.
- Supportive to fuel steam.
- Supportive to atmosphere conditions.
- Supportive to oil, water and poor acids.

Range of Application of Techjack Insulation Jackets

- Turbine Casing and Lines
- Marine Exhaust Lines
- Marine Boiler Rooms and Lines
- Engine and Generators Exhaust Lines
- Machinery, Equipments and Lines
- Boiling Oil & Vapor Lines
- Power Plants
- Heat Exchanger Applications
- Vessel Surface Covers
- Textile Dye Machinery

Manner of Application of Techjack Insulation Jackets

Serial number is given and sizes measured are sent to production. If a leak is detected in the vane and armature before montage starts, it shouldn't be mounted before the leak is eliminated.

Techjack insulation jacket is placed so as to wrap around the vane. It is taped with adhesive touch and close fastener and then the binding threads on both sides of the jacket are fastened.

Vane and armature should be completely covered and they should be pressured so as to they pass pipe flanges at least 100 mm in both sides. Thus, it will be ensured that air passage that may stem from sides is cut and temperature loss in heating lines and condensation in cooling lines are prevented.

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Vane and Armature Jackets Feasibility Report

Vana ve Armatürlerin Tipine Göre Eşdeğer Boru Boyları (Flanşlar dahil) : 1,5 m
1m³ doğalgazdan elde edilen enerji = 8250 x 1,163 x 0,9 : 8,635 kW
İşletmenin yıllık çalışma saati : 7488 saat/yıl
1m³ doğalgaz fiyatı (TL) : 0,814900 TL

ortalama değerdir.

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VANA ÇAPI	1 m BORU İÇİN HESAPLANAN ISI KAYBI		Yalıtımla Kazanılan Enerji Tasarruf Oranı	YALITIMSIZ			YALITIMLI			Tasarruf Yıl	Amortisman Ay	Techjack Yüzey Sıcaklığı	
	QYALITIMSIZ	QYALITIMLI		kW/yıl	m³ doğalgaz	Kayıp	kW/yıl	m³ doğalgaz	Kayıp			Öncesi (°C)	Sonrası (°C)
	W/mk												
DN 15	70	18	73,9	781	90	73,67 ₺	204	24	19,26 ₺	54,42 ₺	6,8	160	31
DN 20	88	20	76,9	986	114	93,04 ₺	228	26	21,53 ₺	71,51 ₺	6,2	160	32
DN 25	110	23	79,3	1235	143	116,53 ₺	256	30	24,15 ₺	92,39 ₺	5,4	160	32
DN 32	138	26	81,3	1553	180	146,59 ₺	290	34	27,37 ₺	119,22 ₺	5,8	160	32
DN 40	158	28	82,3	1770	205	167,04 ₺	313	36	29,50 ₺	137,54 ₺	5,6	160	33
DN 50	197	32	83,8	2209	256	208,49 ₺	357	41	33,73 ₺	174,76 ₺	5,6	160	33
DN 65	248	37	85,1	2788	323	263,10 ₺	415	48	39,16 ₺	223,94 ₺	4,8	160	34
DN 80	290	41	85,9	3258	377	307,44 ₺	461	53	43,49 ₺	263,95 ₺	4,2	160	34
DN 100	373	49	86,8	4186	485	395,04 ₺	550	64	51,95 ₺	343,09 ₺	3,6	160	34
DN 125	455	57	87,5	5116	592	482,82 ₺	639	74	60,31 ₺	422,51 ₺	3,2	160	34
DN 150	538	65	88,0	6043	700	570,25 ₺	727	84	68,57 ₺	501,68 ₺	3,4	160	35
DN 200	714	81	88,6	8017	928	756,56 ₺	912	106	86,07 ₺	670,49 ₺	2,8	160	35
DN 250	889	98	89,0	9989	1157	942,72 ₺	1096	127	103,48 ₺	839,24 ₺	2,9	160	36
DN 300	1058	113	89,3	11886	1377	1.121,73 ₺	1273	147	120,15 ₺	1.001,58 ₺	3,0	160	36

* Ortalama yüzey sıcaklık toleransı ±10°C' dir.

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