



ADVANTAGES

- It reduces 20-40% energy consumption
- Extended life of heaters because of less on and off cycles
- Increases protection by reduction of the surface temperature by 60-75%
- Non-inflammable
- Amortization time is less then 1 year
- It can be always re-fitted rapid assembly and disassembly
- Even temperature profile of the machine cylinder
- Improvement of room temperature, because heaters radiate much less heat (Very important in summer months)



REDUCED ENERGY CONSUMPTION



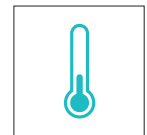
OPTIMUM SAFETY CONDITIONS



EXTENDED LIFE OF HEATERS



ENVIRONMENTALLY FRIENDLY



REDUCTION OF THE ROOM TEMPERATURE

BMS insulated jacket offers high classification temperature combined with excellent tensile strength, handle ability and low shot content, while retaining very good compressibility and flexibility and by that characteristics can be used in wide range of applications as thermal insulation and is especially suited to use as a high temperature wraps, heat shields and in sealing applications.

Insulating covers can be produced for each bend heater independent of type of machine and for most to each type of plastification process separately. Electrical connection and sensors can be individually adjusted. Because of special construction with several layers with high temperature stability, resulting in lower surface temperature the loss of energy being reduced.

Mechanically reinforced fiber fleece is sewn in an abrasion proofed glass fabric. External surfaces of insulation consist of highly durable and abrasion proofed material, witch resist both dirt and plastic material leakage.

There is a large variation in the cost per unit of energy, types of fuel utilized and attitudes towards energy issues across Europe. However, the future of the European plastics industry may depend on how we manage the issue of energyconsumption and its increasing costs.

GENERAL CHARACTERISTICS

- High temperature stability (up to 1200 °C)
- Excellent handling strength
- Soft feel
- Low shot content
- Very good flexibility
- Excellent acoustic absorption capabilities
- Colour : Red
- Fibre Diameter : 3.0 / 9,2 microns (mean)
- Product Density (nominal) : 64 / 96 / 128 / 160 and 180kg/m3
- Tensile Strength : 90 kPa
- Classification Temperature : 1200 °C

TYPICAL CHEMICAL ANALYSIS (FIBRE WT,%)

- SiO₂ : 61.0 – 67.0
- CaO : 27.0 - 33.0
- MgO : 2.5 – 6.5
- Al₂O₃ : < 1.0
- Fe₂O₃ : < 0.6

Retrouvez toutes nos références sur notre catalogue en ligne et toutes les fiches techniques sur www.bmsfrance.eu

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Average savings (kW) per day regarding processed material and machine size

Average Savings kW per day	Size of the machine (kN)									
	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000
PP	9	15	21	26	29	32	35	42	48	65
ABS	12	19	23	29	33	35	39	46	52	71
PA 6(66)	16	22	25	31	35	39	43	49	56	76
Detail weight	12 g	16 g	24 g	25 g	27 g	32 g	35 g	45 g	47 g	65 g

Analyses made on multiply machinery : Engel, Demag, Krauss Maffei, Ferromatic, Haitian, Atec. Process characteristics: multi cavities, cycle time - short (7 to 19 sec.) Temp. of work: PP 210 st.C ABS 240 st.C PA66 280 st.C Machinery age (2001 - 2008) Agregate rotation speed: PP 1m/s ABS 0,3 m/s PA66 0,40 m/s. Surranding temp (at work place) inroom temp around 22 dgr.C. According to many different and vital process characteristics those are typical but only a descriptive samples. Can not be treated as final and binding.

Average savings by processed material type

Material Type	Work Temp.	Savings min	Savings max	Savings on entire Unit
	°C	%	%	%
PP	200-290	20	30	5 to 8
LDPE	190-280	20	30	5 to 8
HDPE	210-300	20	34	6 to 9
PS	170-280	18	30	5 to 8
SB	180-280	18	30	5 to 8
SAN	200-260	22	28	5 to 9
ABS	200-270	22	28	5 to 9
PCW-U	170-210	18	24	4 to 7
PCW-P	140-200	16	23	4 to 7
CA	180-220	18	24	4 to 7
CAB	180-220	18	24	4 to 7
CP	180-220	18	24	4 to 7
PMMA	180-260	18	24	5 to 8
PC	280-320	30	37	6 to 9
PC+ABS	240-280	25	30	6 to 9
PA amorf.	260-300	28	35	6 to 9
PA 6	230-280	25	30	6 to 9
PA 66	270-320	28	37	6 to 9
PA 6 10	230-280	24	30	6 to 9
PA 11	200-250	22	28	5 to 9
PA 12	200-250	22	28	5 to 9
POM	190-220	20	24	5 to 8
PET	260-280	28	30	6 to 9
PBT	240-280	25	30	6 to 9

Average savings by type of plastic material taken on probe of about 500 processes. Min. and Max savings contents shows only heated elements analyses.

Probe made on the basis of comparison processes.

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Average savings by clamping force of press

Clamping force kN	Heaters out. Dia (mm)	Cylinder lenght (mm)	Average savings (day)
500	100	700	2,5 kW
600	110	700	3,9 kW
800	110	800	5 kW
900	120	900	7 kW
1200	120	1000	9 kW
1400	130	1000	11 kW
1600	140	1000	14 kW
1800	140	1100	16 kW
2000	150	1100	19 kW
2200	150	1100	21 kW
2400	160	1100	22 kW
2600	170	1200	24 kW
2800	180	1300	26 kW
3000	200	1400	27 kW
3500	200	1500	32 kW
4000	220	1600	36 kW
4500	220	1700	41 kW
5000	240	1700	47kW
6000	250	1800	54 kW
8000	260	1900	65 kW
10000	270	1900	72 kW
12000	280	2000	80 kW
14000	300	2100	89 kW
16000	320	2200	94 kW
18000	340	2300	102 kW

Average energy savings results based on 10 major injection molding machines brands: Nets-tal, Husky, Engel, Demag, Krauss Maffei, Battenfeld, BMB, Negri Bossi, Sandretto, Italtech. Measured on close or similar types of process.

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