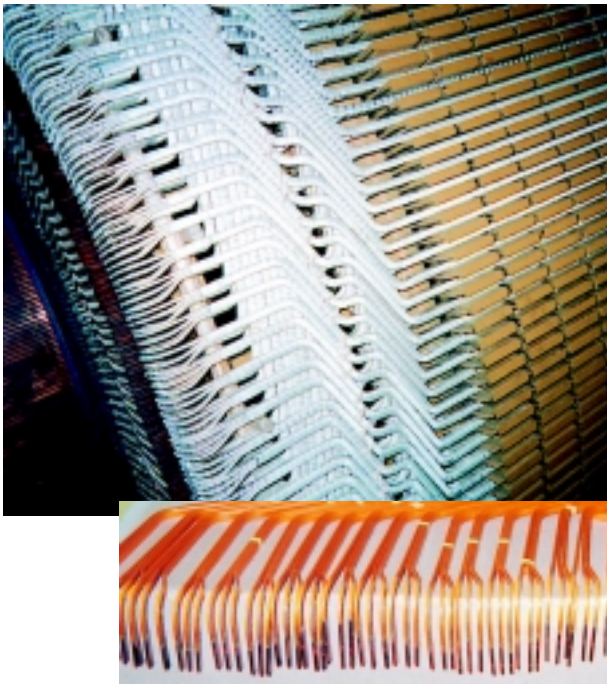




Kapton[®]

polyimide film

Kapton[®] Keeps Steel Billet Mill Motor Running 24 hours a day



Application Description

Iscor's steel billet mill motor in Newcastle, South Africa has to run under extremely arduous conditions. The 3800 kW DC motor's armature weighs 103,870 lb (47 tons), is 2.8 m (9.18 ft) in diameter and 6 m (19.68 ft) in length. Operating for 24 hours a day, the reversing mill with regenerative braking puts excessive strain on the insulation system. It failed recently with marked overheating characteristics and with much of the insulation burnt black. Upon assessment, it was decided to rebuild the insulation to Class H specifications using resin rich technology and specifically to change the conductor insulation from double varnished glass to Kapton[®], as this was probably the area of the initial failure.

Reasons for Choosing Kapton[®]

- High dielectric strength
- 3 × heat dissipation factor of normal film
- Resistance to temperature extremes

United States (800) 967-5607 • Canada (905) 821-5603 • Japan 81-3-5434-6139
 DuPont Toray Co. 81-3-3245-5061 • Hong Kong 852-2734-5461 • China/Beijing 86-10-65227010
 India 91-22-8390770 • Korea 82-2-222-5399 • Singapore 65-279-3527 • Taiwan 886-3-3773604

For more information on Kapton[®] polyimide films, visit our website at www.kapton-dupont.com