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composite bushing – Transformer bushing – silicon rubber bushing

[].

(Composite materials)

...

(Spacer)

(insulators)

Composite material

Composite material

:

-

-

-

[]

:

.RTV

open modular

.(LSR)

HTV

Single shot injection

.HTV

System modular

)

(

(creepage distance)

FRP

$$(\quad) \quad k_n = \frac{L}{H}$$

:

)

(.

(Creepage (overall length)

20Nf 250

distance)

/ 30Nf 250

/

()

20/.4 kv

()

33/.4 kv

20/.4 kv Standard Transformers									
									(KVA)
%	% /	%	% /	%	% /	% /	% /	% ,	

--	--	--	--	--	--	--	--	--	--

20/.4 kv

– ()

33/.4 kv Standard Transformers									
									(KVA)
%	% /	% /	% /	% /	% /	% /	% /	% /	

33/.4 kv

– ()

)

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- 1- Freeman, W.B. Orbaeck, T. Moal, E., AABB Power T & D Corp.,
Grensburg, PA, “Development of cononical silicone rubber bushings to
replace porcelain on SF₆ circuit breakers” , Transmission and Distribution
conference, 1994., Proceedings of the 1994 IEEE Power Engineering
society Meeting Date: 04/10/1994-04/15/1994, Publication Date: 10-15 Apr
1994, Location: Chicago, IL, USA, pp.659-665.
- 2- Engelbrecht, C.s.; Hartings, R.; Tunell, H.; Engstrom, B.; janssen,
H.; Hennings, R., “Pollution tests for coastal conditions on an 800 kv
composite bushing” , IEEE Transaction on power Delivery, volume 18,
Issue 3, July 2003, pp. 953-959.
- 3- Masoud Farzaneh, jean-Francois Drapeau, Changiz Tavakoli,
Michel, Quebec “Laboratory investigations and methods for evaluating the
flashover performance of outdoor insulators on a large scale “, Hydro-
Atmospheric d’Hydro-Quebec (IREQ) (Montreal, Canada), Network
(Varennnes, canada), IW AIS 2002
- 4- Dong Chang park, seopng su kim, jong woon kim, Dai Gil Lee,
“Axiomatic design of comosit hemispherican bearing”, proceedings of

ICAD 2004, The Third International Conference on Axiomatic Design seoul

– June 21-24, 2004.

- 5- R.Omranipour, L.H.Mayer, “Tracking and Erosion resistance of RTV Silicone Rubber: Effect of filter particle size and loading” , Annual report conference on electrical insulation and dielectric phenomena, 2002
- 6- Zhidong Jia and Zhicheng Guo, “Discharge along hydrophobic and hydrophilic surface”., IEEE, 2002
- 7- IEEE std 957, “IEEE guide for cleaning insulators” , 1995.