

ENGINEERING MATERIAL SPECIFICATION

Material Name

Specification Number

PAPER, CONDENSER, LOW DENSITY, ELECTRICAL GRADE

ESF-M4E12-A

1. SCOPE

The material defined by this specification is an electrical grade condenser paper of good quality and uniform composition.

2. APPLICATION

This specification was released originally for material used as a separator between secondary windings in ignition coils.

3. REQUIREMENTS

3.1 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.2 REAM WEIGHT , min (ASTM D 646, 500 sheets 508 x 762 mm)	21.5 g/m ²
3.3 THICKNESS (ASTM D 202 & D 374, Method C)	24 - 27 micrometre
3.4 APPARENT DENSITY (ASTM D 202)	0.85 - 0.95 g/cm ³
3.5 CONDUCTING PARTICLES , max (ASTM D 202, Method A)	11.3/m ²
3.6 ASH , max (TAPPI T 413)	0.45 %
3.7 CHLORIDES , max (ASTM D 1305)	16 ppm

Date	Action	Revisions
2002 10 14	Revised	Updated & Renumbered
1991 01 31	DE00E00107002086	Reactivated & Updated J. B. Huebner
1963 07 01	F6-1077	Released

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3.8	SULFATES (TAPPI T 255)	No trace
3.9	DIELECTRIC STRENGTH , min (ASTM D 149 & D 1305)	16 kV/mm
3.10	TENSILE STRENGTH , min (ASTM D 202)	
	WMD	1752 kN/m of width
	AMD	876 N/m of width

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