1 Definition of Technical Terms

Technical Terms	Code	Definitions
Formation	———	Process for depositing dielectric aluminum oxide film (Al_2O_3) on the surface of the foil by anodic oxidation.
Formed Foil	———	Foils treated by formation process.
Etched Foil	———	Foils treated by etching process before formation process.
Foil for Anode	———	Foils used as an anode of a capacitor.
Foil for Cathode	———	Foils used as a cathode of a capacitor.
Voltage across Terminals	Vfe	Final voltage applied during formation process.
Dielectric Withstanding Voltage	Vt	Voltage of formed foil measured 3 minutes after reaching rise time (Tr).
Nominal Formation Voltage	Vfs	Nominal value of dielectric withstanding voltage.
Rise Time	Tr	Time at which the applied voltage reaches 90% of nominal formation voltage (Vfs), with a specified electric current applied to formed foil.
Rise Time Voltage	Vr	Voltage attained at the rise time (Tr).
Hydration Process	———	Immersion of foil in deionized water at high temperature for specified time.
Hydration Resis tance Test	———	Test to evaluate foil stability after hydration process
Rise Time after Hydration Process	Tr_{60}	Time at which the applied voltage reaches 90% of nominal formation voltage (Vfs), with a specified electric current applied to hydrated formed foil.
Dielectric Withstanding Voltage after Hydration Process	Vt_{60}	Voltage of formed foil after hydration process measured 3 minutes after rise time (Tr_{60}).
Initial Capacitance	C_0	Initial capacitance of cathode foil used for ΔC_{60} calculation.
Capacitance after Hydration Process	C_{60}	Capacitance of cathode foil after hydration process used for ΔC_{60} calculation.
Change of Capacitance after Hydration Process	$\triangle C_{60}$	$\triangle C_{60} = \{(C_{60} - C_0) \div C_0\} \times 100(\%)$

Note: Vt_{60}, Tr_{60}, C_{60} and ΔC_{60} indicate hydration time of 60 minutes.