



## Electrical Machinery and Equipment

# Lithium Secondary Battery and Electric Double-layer Capacitor

Location	Japan
Environment	Indoor
Grade/surface	SUS329J4L
Manufacturer	Seiko Instruments Inc
Material supplier	Nippon Yakin Kogyo
Source of information	JSSA

Seiko Instruments has developed lithium secondary batteries (rechargeable batteries) and the supercapacitors (electric double-layer capacitors) for time indicators of mobile phones and digital cameras. The development involves pressing austenitic grade 329J4L stainless steel into coin-shaped components which house the electronic components. The stainless steel is constantly exposed to a combination of electrolytic solutions and high voltages and must be corrosion-resistant and capable of withstanding the vapor pressure of the electrolytic solution. The material selected is a highly corrosion-resistant and hard duplex stainless steel grade SUS329J4L. This is an application with a strong demand growth.

