



Pressure Measurement Film PRESCALE Application Examples No.24



Inspection for damage or alignment of rollers used for pressing electrode plates

Measured objects

 Rollers for pressing electrode plates of lithium-ion

Examples of relevant products Smartphones and EVs





Measurement

Pressure is applied to a Prescale film inserted between the rollers under normal conditions. The color developed in the film is then checked for consistent pressure distribution. This simple procedure verifies the quality or parallel alignment of the rollers.

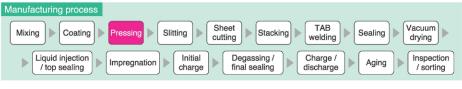


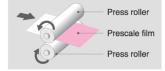


Photo provided by

Use example 1 Check for scratches, dents or deformation

Product used

Prescale (Low pressure LW or Super low pressure LLW)





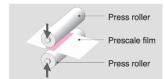
No marks



Check for parallel alignment of rollers after gap adjustment.

Product used

Prescale (High pressure HS)









Pressure is greater on the right side.

Benefits of Prescale

- Prescale makes it possible to identify damage on rollers including scratches, dents or deformation. Use of such damaged rollers result in uneven thickness of electrode plates, leading to non-uniform reaction of electrochemicals or other defects.
- Prescale enables roller parallelism adjustment. If the rollers are not parallel, the thickness of the electrode plate varies between the right and left. The plate of uneven thickness cannot be used for either cylindrical or flat batteries when the plate joints are misaligned.
- Optimum tool to perform scheduled roller quality inspections.

http://www.fujifilm.com/products/prescale/guide/index.html

Since the images provided are used for illustration purposes, they may differ slightly from actual products



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