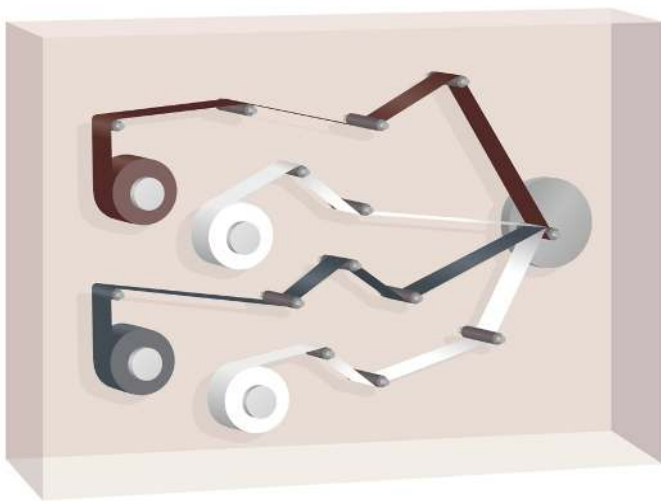


PRESCALE

Applications in manufacturing Lithium ion Battery

Prescale will support quality improvement and reduction of defect rate by visualizing the pressure applied.

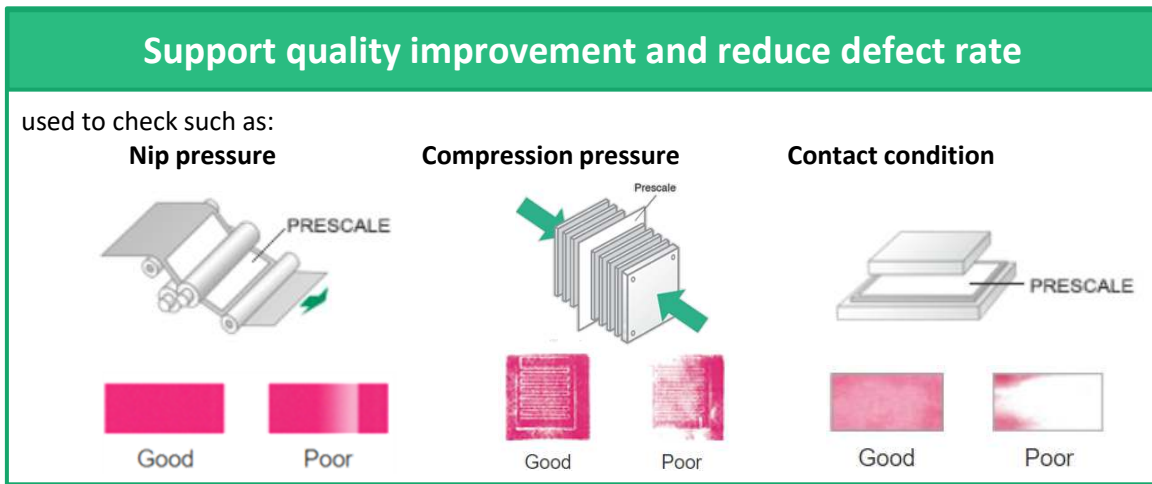
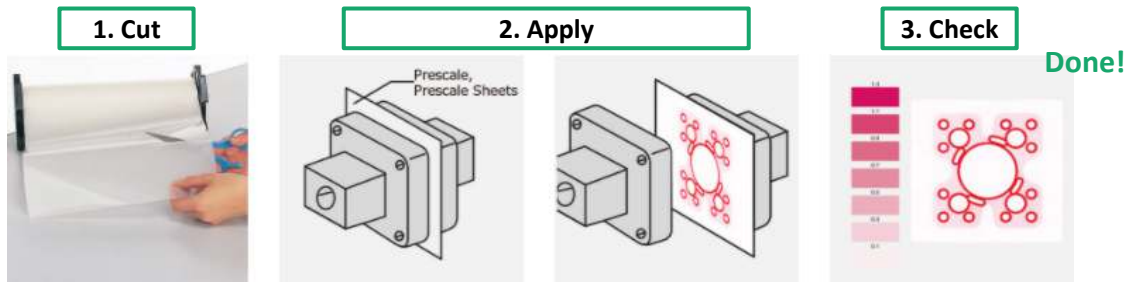


What is Prescale?

Prescale is a **pressure measurement film** that can measure pressure distribution and range by its color density.

It covers a wide pressure range (0.006 to 300MPa), and could be **used in many places, instantly and very easily.**

All you have to do is to cut, apply, and check.

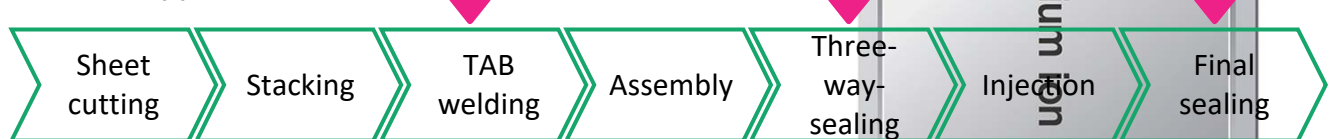


Manufacturing LiB with Prescale (for pouch type)

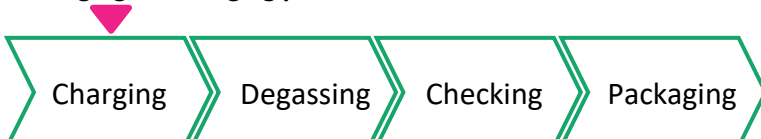
1. Electrode process



2. Assembly process



3. Aging & Packaging process



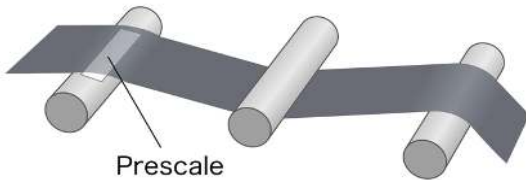
▼ = Process to use Prescale

Use of Prescale

1. Electrode process - Coating, Pressing and Slitting

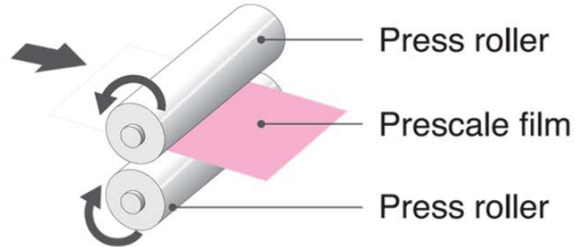
① Check for parallel alignment of roller

② Check for scratches, dents or deformation of roller



With Prescale:

Prevent dimensional error and help accurate coating or pressure.

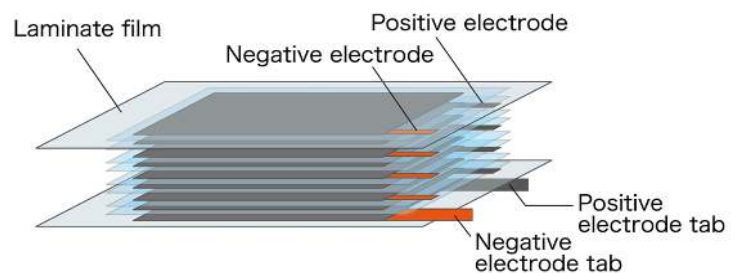
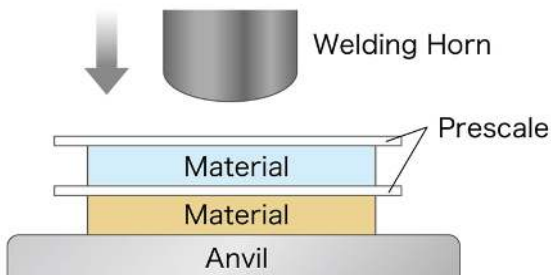


With Prescale:

Prevent contamination or thickness variation of the electrode.

2. Assembly process - TAB Welding, Three-way-sealing and Final sealing

① Check the contact condition generated by ultrasonic welding

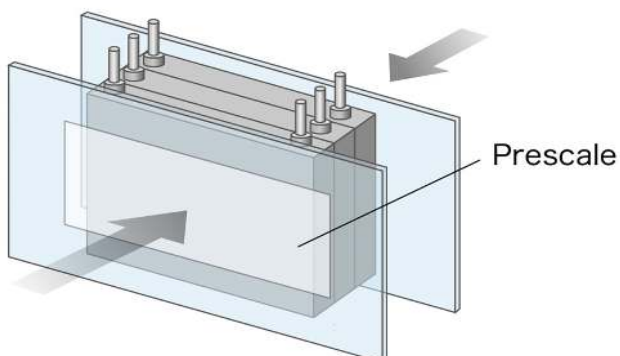


With Prescale:

Prevent welding defect causing liquid leakage.

3. Aging & Packaging process - Charging

① Check the pressure load when LiB swells



With Prescale:

Prevent damage, deformation or explosion of LiB.

Other information for Prescale

Types of Prescale

Prescale



Presheet



Pressure range

Types	Measurable pressure range [MPa] 1MPa ≈ 10.2kgf/cm ²	Prescale	Prescale Sheets	Classification
		Product size width(mm) x length(m)	Product size width(mm) x length(mm)	
Ultra Extreme Low Pressure (SLW)	0.006	320 x 2	—	Two-Sheet Type
Extreme Low Pressure (4LW)	0.05	320 x 3	—	Two-Sheet Type
Ultra Super Low Pressure (LLLW)	0.2	270 x 5	270×200 (5 Sheets)	Two-Sheet Type
Super Low Pressure (LLW)	0.5	270 x 6	270×200 (5 Sheets)	Two-Sheet Type
Low Pressure (LW)	0.6	270 x 10	270×200 (5 Sheets)	Two-Sheet Type
Medium Pressure (MW)	2.5	270 x 10	—	Two-Sheet Type
Medium Pressure (MS)	10	270 x 10	270×200 (5 Sheets)	Mono-Sheet Type
High Pressure (HS)	50	270 x 10	270×200 (5 Sheets)	Mono-Sheet Type
Super High Pressure (HHS)	130	270 x 10	270×200 (5 Sheets)	Mono-Sheet Type
	300			

Pressure distribution mapping system, FPD8010-E

Software that performs various methods of analysis of pressure more precisely.



**Contact us or search "Prescale" for further information,
other application examples or free samples !**