

PRESSURE MEASUREMENT FILM PRESCALE

**SUPER HIGH PRESSURE
HHS
(MONO-SHEET TYPE)**

1 LINE UP

Eight types of Prescale are supplied according to Seven pressure level. Select the appropriate Prescale range.

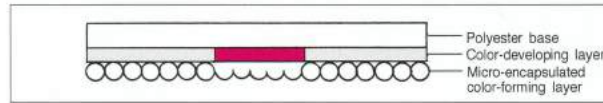
type	Film type	Pressure range[MPa] 1MPa ≒ 10.2kgf/cm ²		Product size W(mm)×L(m)	
		0.05	0.2 0.5 0.6 2.5 10 50 130 300		
		Pressure range[psi] 1psi ≒ 6895Pa			
Two-sheet type	Extreme Low Pressure (4LW)	7	29	310×3	
	Ultra Super Low Pressure (LLLW)	73	87	270×5	
	Super Low Pressure (LLW)	363	1450	270×6	
	Low Pressure (LW)	7250	18850	270×12	
	Medium Pressure (MW)	43500		270×12	
Mono-sheet type	Medium Pressure (MS)			270×12	
	High Pressure (HS)			270×12	
	Super High Pressure (HHS)			270×12	

* Film type W:Two-sheet
S:Mono-sheet

2 STRUCTURE AND HOW IT WORKS

Structure

There are two types of Prescale; Two-sheet type and Mono-sheet type.
Mono-sheet type is composed of polyester base on which the color-developing material is coated, with the micro-encapsulated color forming material layered on top.



How it works

When pressure is applied, the microcapsules are broken and the color-forming material reacts with the color-developing material to make red color. The microcapsules are designed to break according to the pressure so the color density corresponds to the pressure.

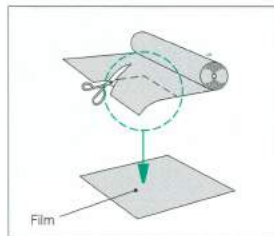
3 PROPERTIES

Precision	±10% or less (measured by densitometer at 23°C/73.4°F, 65% RH)
Recommended temperature range	15°C~30°C(59°F~86°F)
Recommended humidity range	35% RH~70% RH

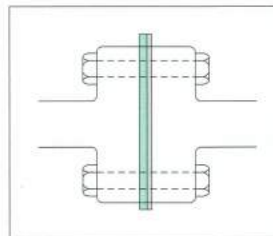
4 HOW TO USE

MONO-sheet type (Medium & High & Super High pressure: MS & HS HHS)

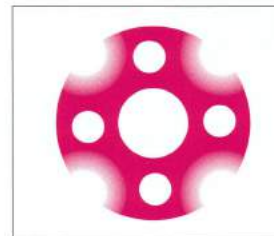
Cut Prescale in a black poly sack appropriately. Insert the Prescale where you want to measure pressure. Apply pressure. Red patches appear on the films and the color density changes according to pressure level. Take out the film and check the pressure distribution.



(1) Cut the Prescale Film into the required shape.



(2) Insert cut Prescale Film into area to be measured and apply pressure.



(3) Remove film and observe pressure distribution.

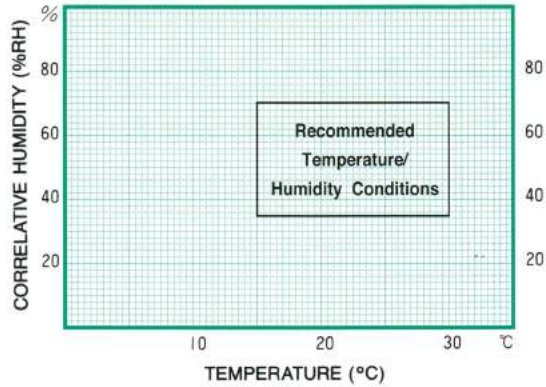
SUPER HIGH PRESSURE

HHS

(MONO-SHEET TYPE)

STANDARD CONTINUOUS PRESSURE CHART

GRAPH OF TEMPERATURE/
HUMIDITY CONDITIONS



Check if the temperature and humidity meet with the conditions above when the pressure is applied.

STANDARD COLOR SAMPLE

1.3



1.1



0.9



0.7



0.5



0.3



0.1

