

The Difference between NEUES and Ion-Plating

	NEUES (also known as Sputtering Method)	Ion-Plating
Equipment Difference	Stainless steel sheet is feed horizontally into the machine to be color processed.	Stainless steel sheet is fixed in vacuum chamber firmly for coloring process.
Coloring Process Difference	The distance between the target and the stainless steel sheet is kept the same. The target metal is firmly fixed while being sputtered. The stainless steel sheet temperature is kept under 100°C during coating process.	The distance between the stainless steel sheet and the Metal Evaporator is uneven. The target metal would be melted and evaporate. The stainless steel sheet will be heated up to 250-500°C during coating process.
Effect on Finish Sheet Shape	No effect, sheet remains flat.	Distorted easily due to heat and fixation in the chamber.
Coloring Uniformity on Each Sheet	Color variation on one sheet is small ($\Delta E \leq 3$)	Color variation is large ($\Delta E > 3$)