

STELLA COAT



Core pin manufacturer
and surface treatment professionals
have jointly developed
coating for core pins



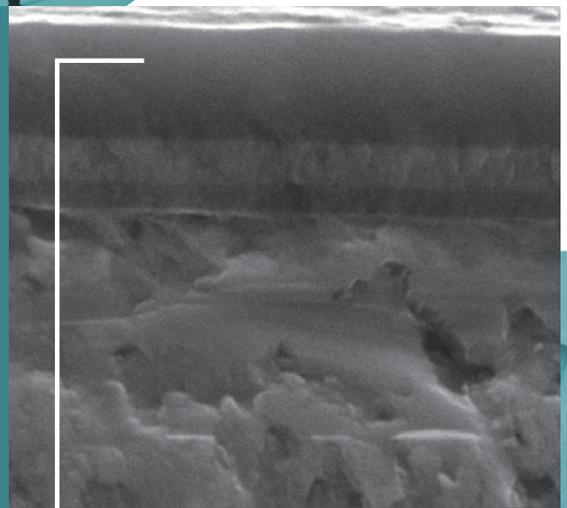
"Stella" composed of five
elements significantly reduces
mold maintenance

Features of Stella Coat

- AlCrTiSiN-based nano composite multilayer coating
- 3-layer coating

Evaluation of the coating

- Harder film than TiN, TiAlN, and CrN (Hv3000)
- Excellent resistance to aluminum sticking / erosion
- Excellent oxidation resistance (1100°C)
- Thin film with little dimensional change



Dense
film structure

CASTEC celebrated its 85th anniversary in 2022. In this memorable year we released a new coating. We would like to bring out the performance of core pins and solve casting problems.

85th
Anniversary



STELLA COAT

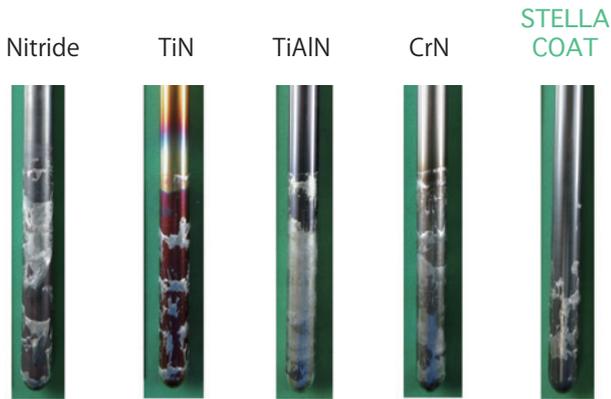


Surface hardness

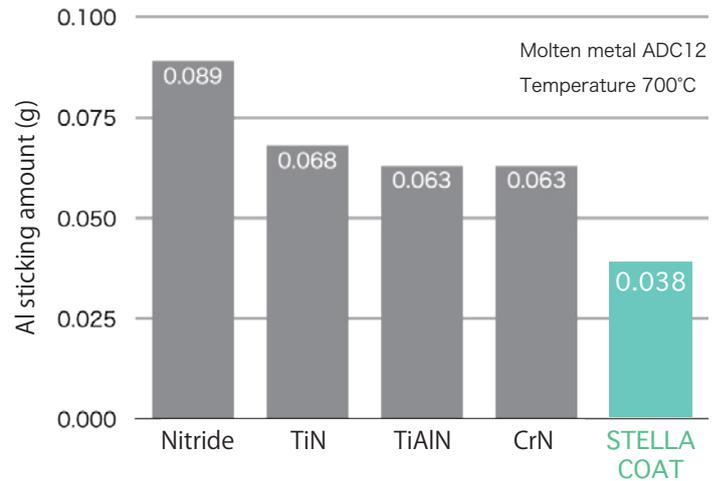


	TiN	TiAlN	CrN	STELLA COAT
Hardness(HV)	2000	2800	1800	3000

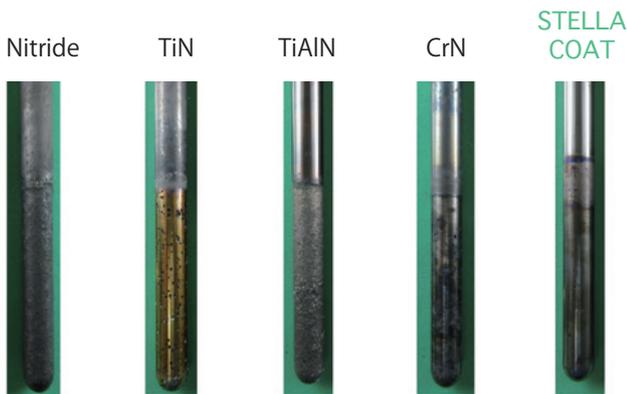
Al sticking test results (5-minute aluminum immersion → Appearance of specimen after wiping and amount of sticking)



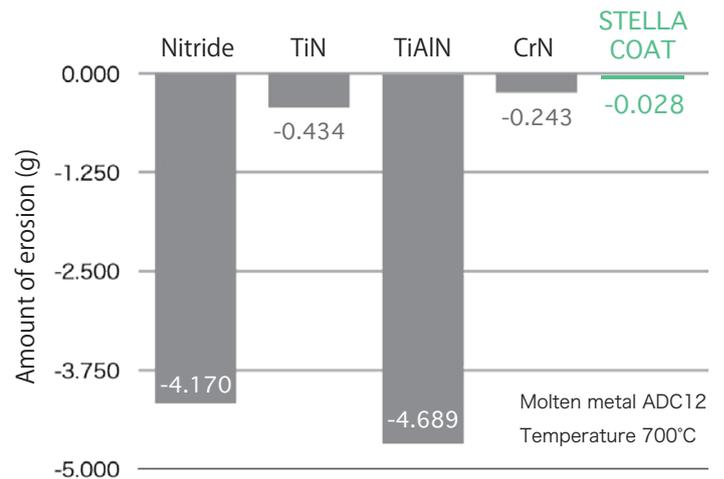
Specimen size : H13(SKD61) φ12, length 120mm
Aluminum immersion range : 70mm from tip



Erosion test results (9-hour aluminum immersion → Appearance of specimen after removal and amount of erosion)



Specimen size : H13(SKD61) φ12, length 120mm
Aluminum immersion range : 70mm from tip



"Stella Coat NOVA" specialized for inserts is available now!

Excellent against seizure, erosion, and heat check resistance



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