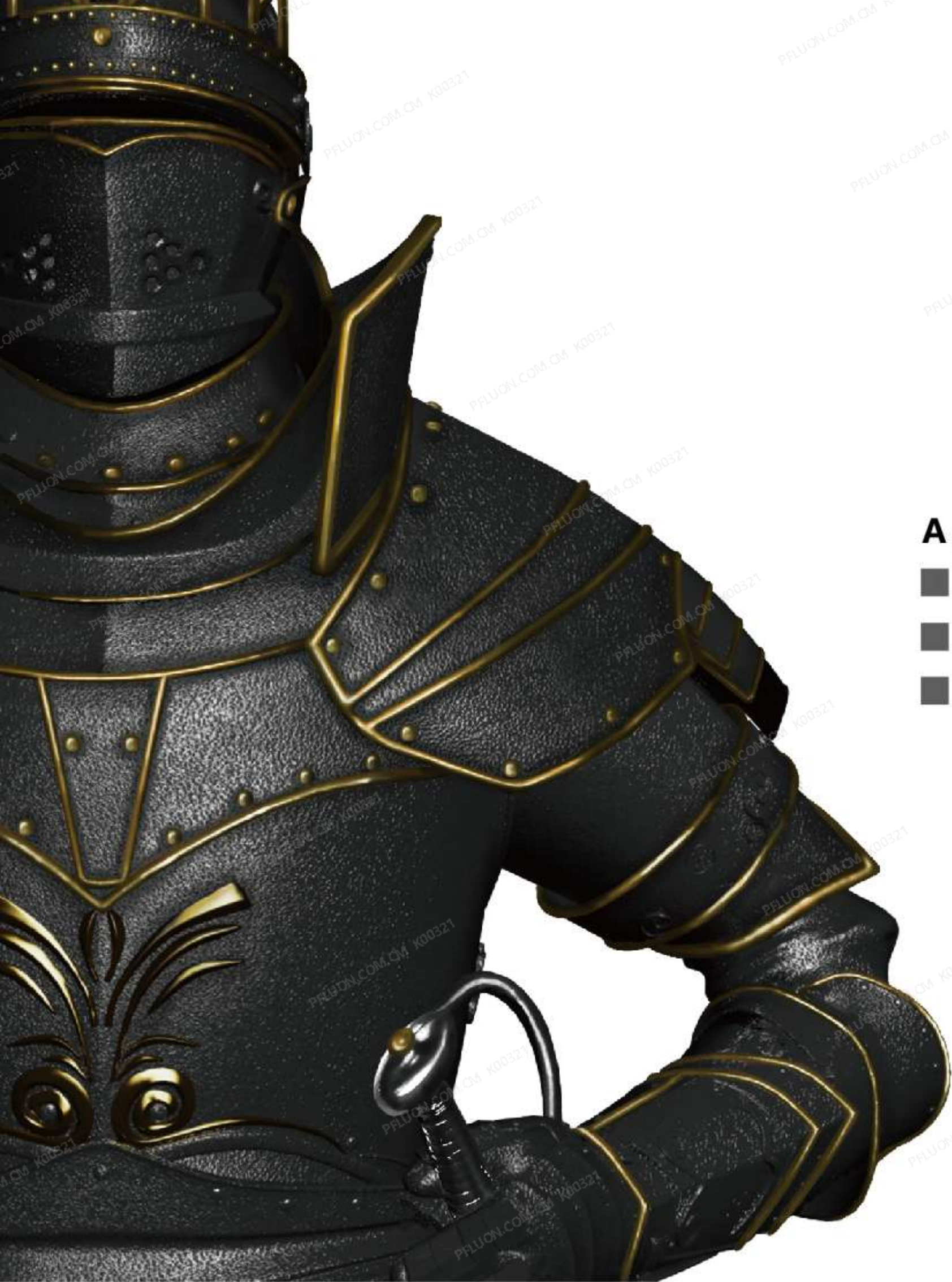




PREMIUMTM

High performance coating



PREMIUM™

A gorgeous metamorphosis...

- Original performance design, lasting service life.
- Natural leather surface, fresh sense enjoyment.
- New green material, advanced innovative coating.



PREMIUM™

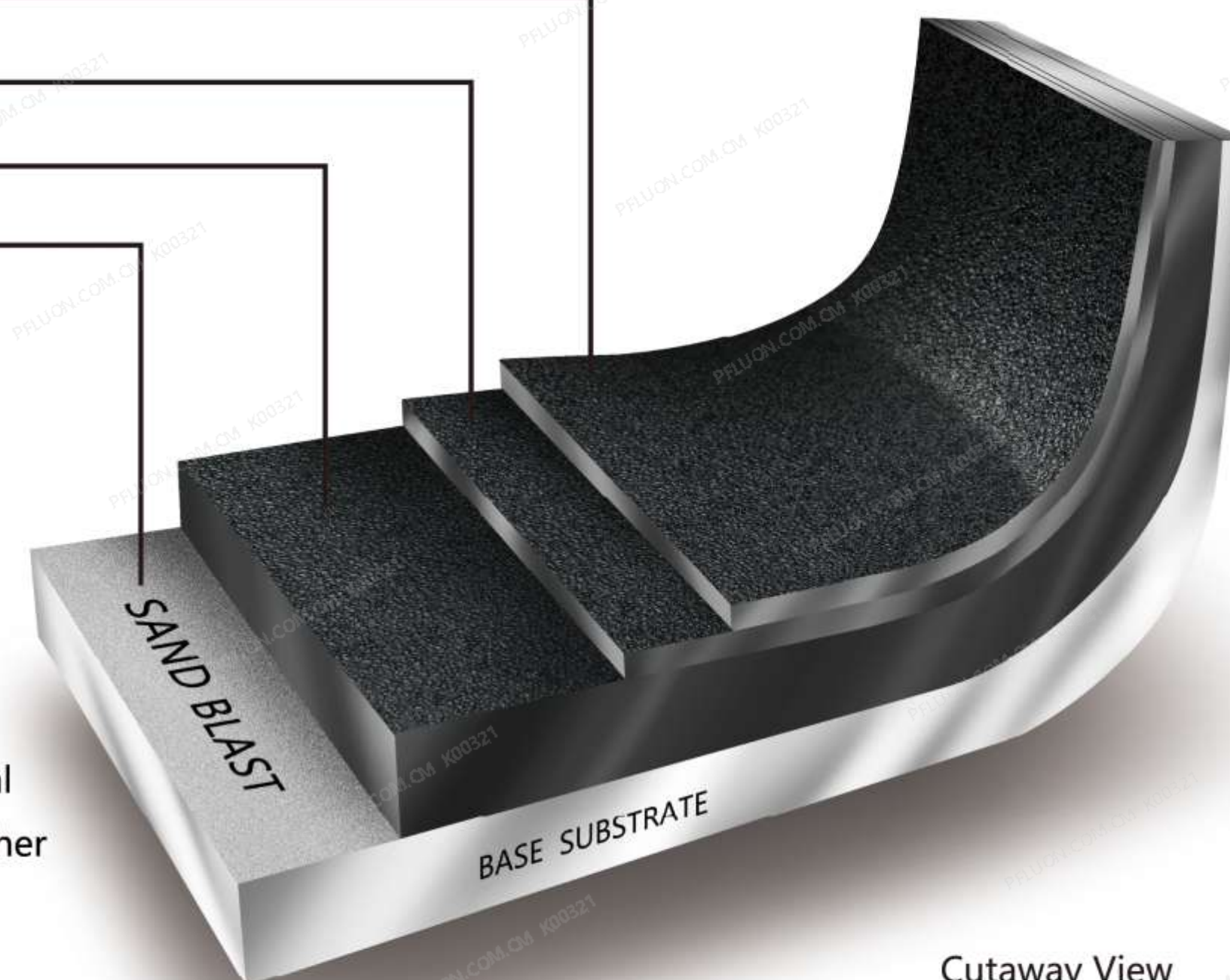
High performance coating

PREMIUM TOP

PREMIUM MID

PREMIUM PRIMER

BASE SUBSTRATE



The combination of advanced material and new technique brings excellent durability and non-stick property with 3-layer system; natural forming of convex-concave surface is another peculiar feature to PREMIUM.™

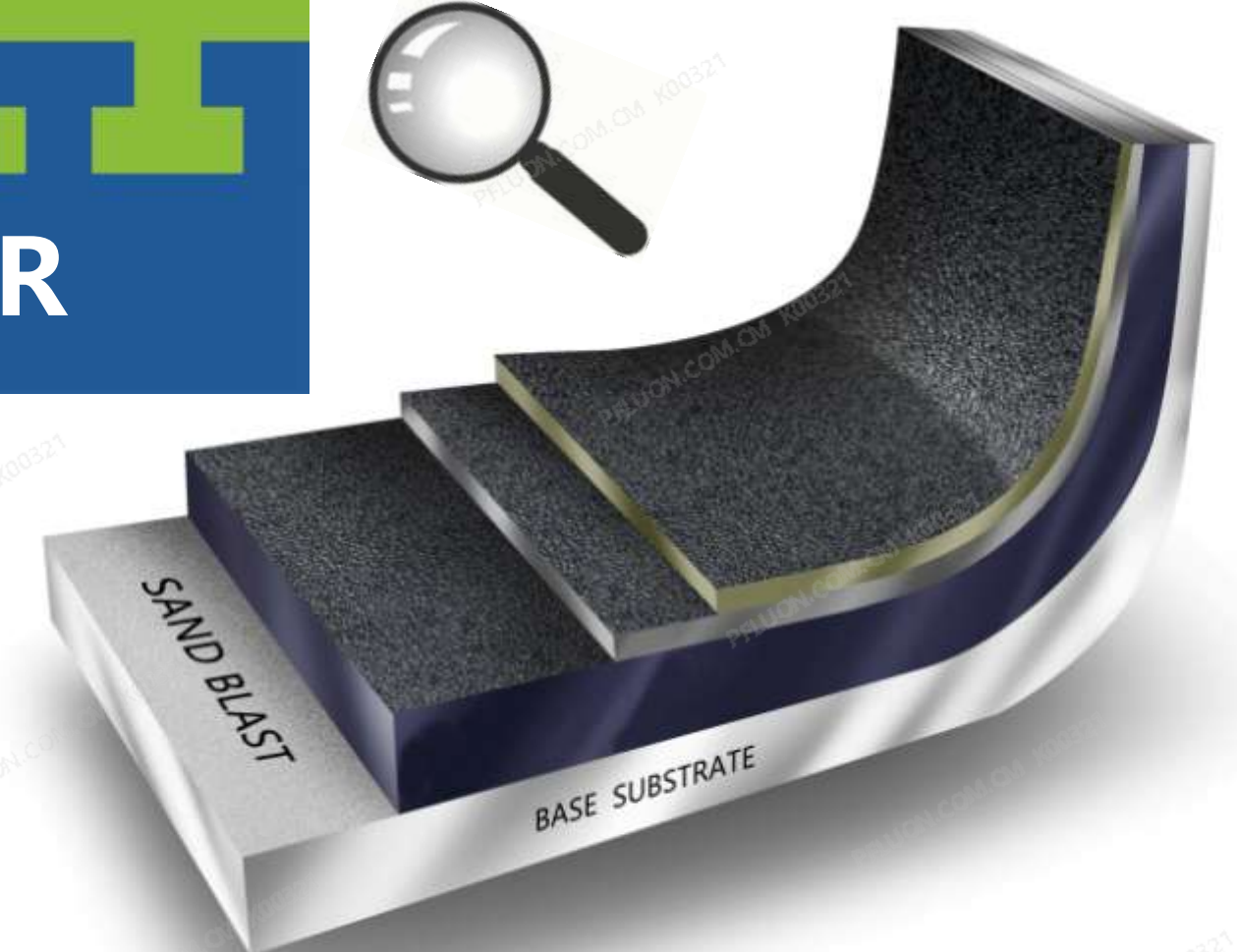
Cutaway View



By polymer pretreatment, Premium™ enjoy high hardness and high toughness. The film forms with convex-concave character.

By high temperature and link application, using modified PTFE coating for topcoat, the coating forms high durability and excellent non-stick performance film.

PREMIUM™
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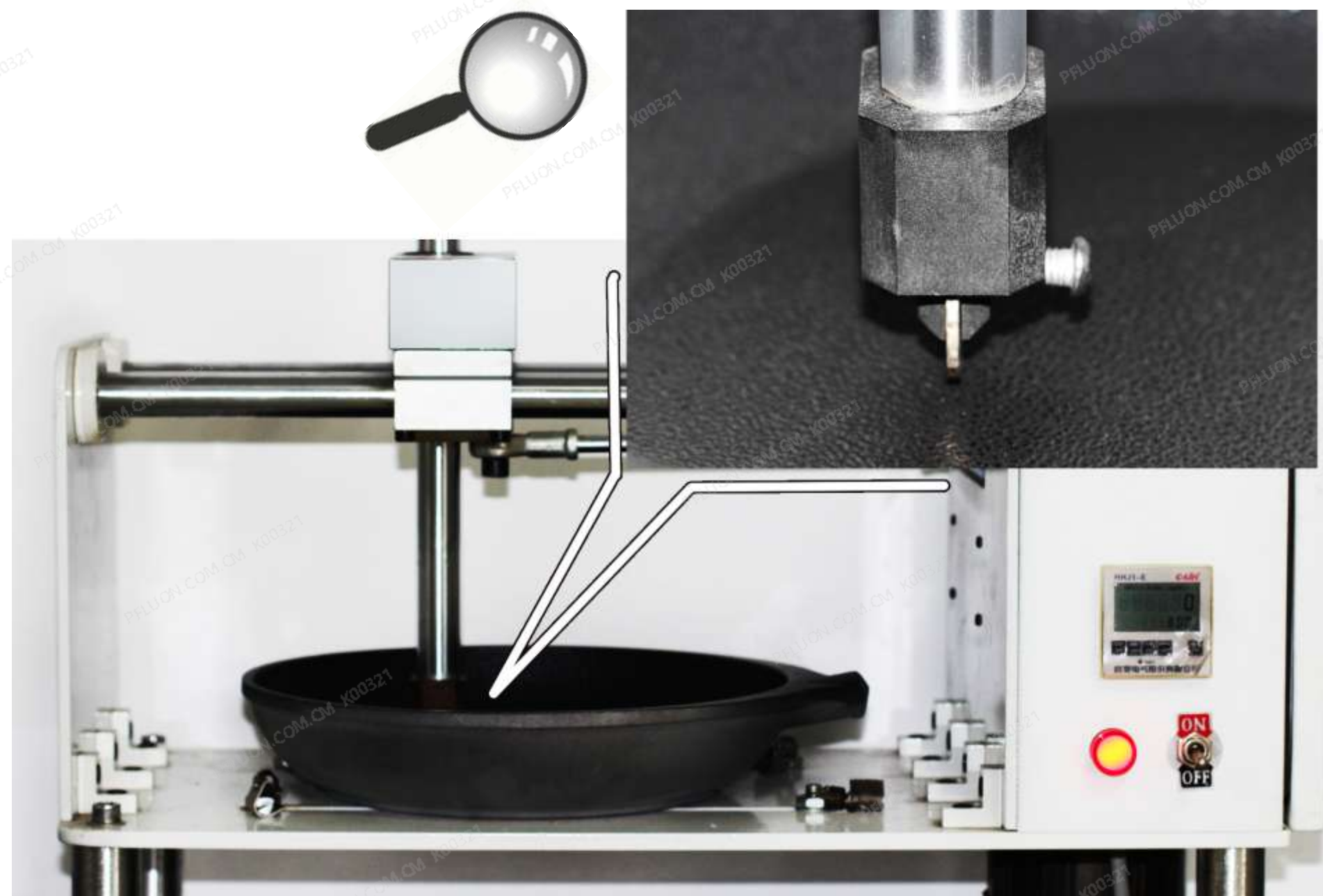
Scratch resistance test (Coin Test)

Test equipment: Coating scratch resistance tester

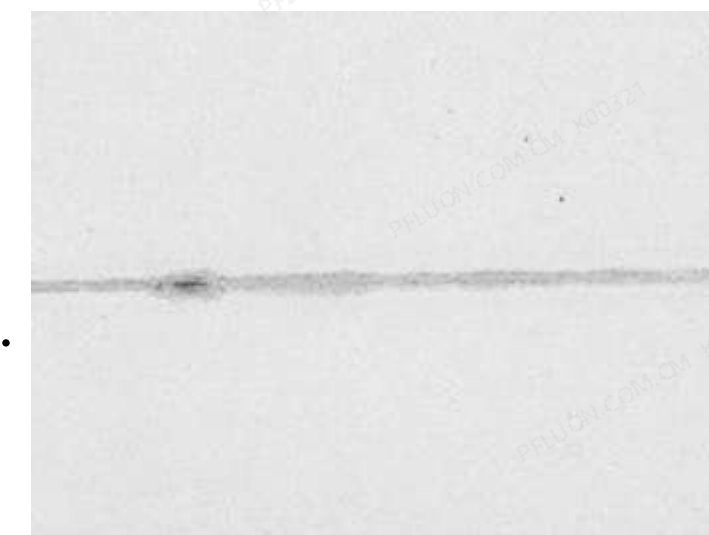
Test condition: 3KG vertical pressure

Medium: Coin (Copper)

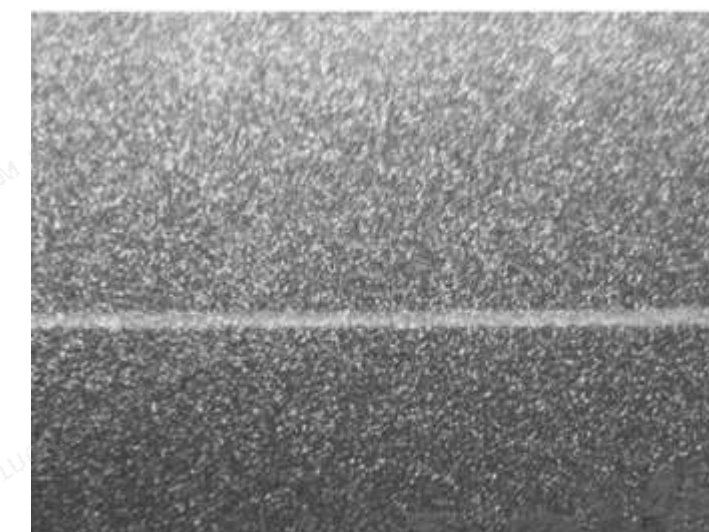
Description: Under normal temperature, using coating scratch resistance tester, with 3Kg vertical pressure to test the coating damage caused by the coin with 10cm moving distance. Back and forth as a cycle.



After 5 cycles, Ceramic coating is damaged and metal substrate is revealed.



After 20 cycles, 3-layer highest performance PTFE coating is damaged and metal substrate is revealed slightly.



Premium™ could pass 500 cycles, the coating surface lost gloss, no metal substrate is revealed.



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High performance coating

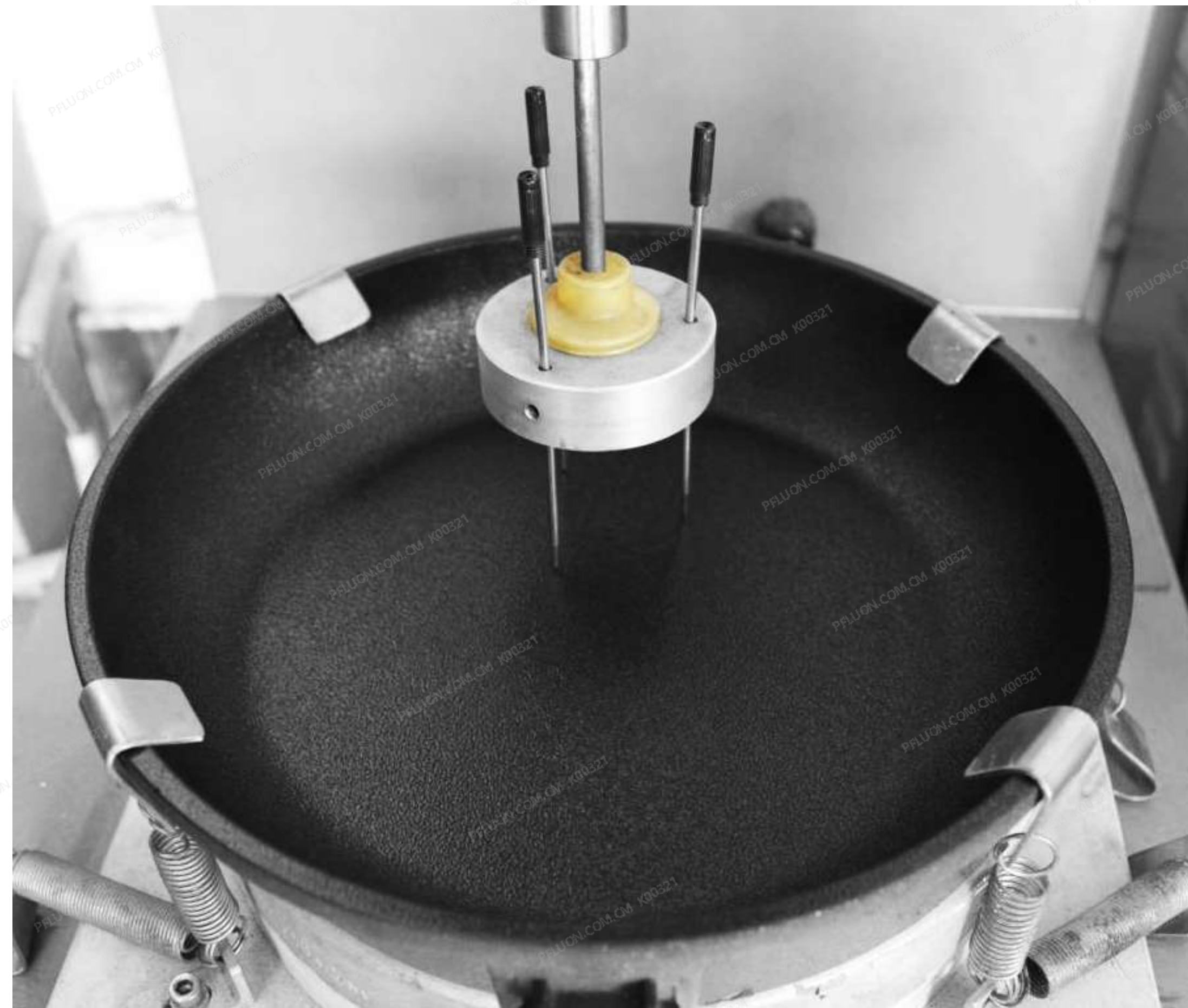
Service life test (Tiger paw test)

Test equipment: tiger paw tester

Test condition: 0.4kg vertical pressure

Medium: Steel ball - point pen conductor

Description: Turn on the device. With the condition of 200°C of the test workpiece, to examine the anti-friction ability of the coating under thermal state, by the friction of the steel ball-point pen conductor caused by wear and tear to the surface of the coating.



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High performance coating

Ceramic coating: metal substrate is revealed in large area after 10 min



High-temperature scratch resistance is much better than others

Service life test (Tiger paw test)

3-layer highest performance PTFE coating: metal substrate is revealed in large area after 5min-6min



Premium™ : no metal substrate is revealed after 30 min



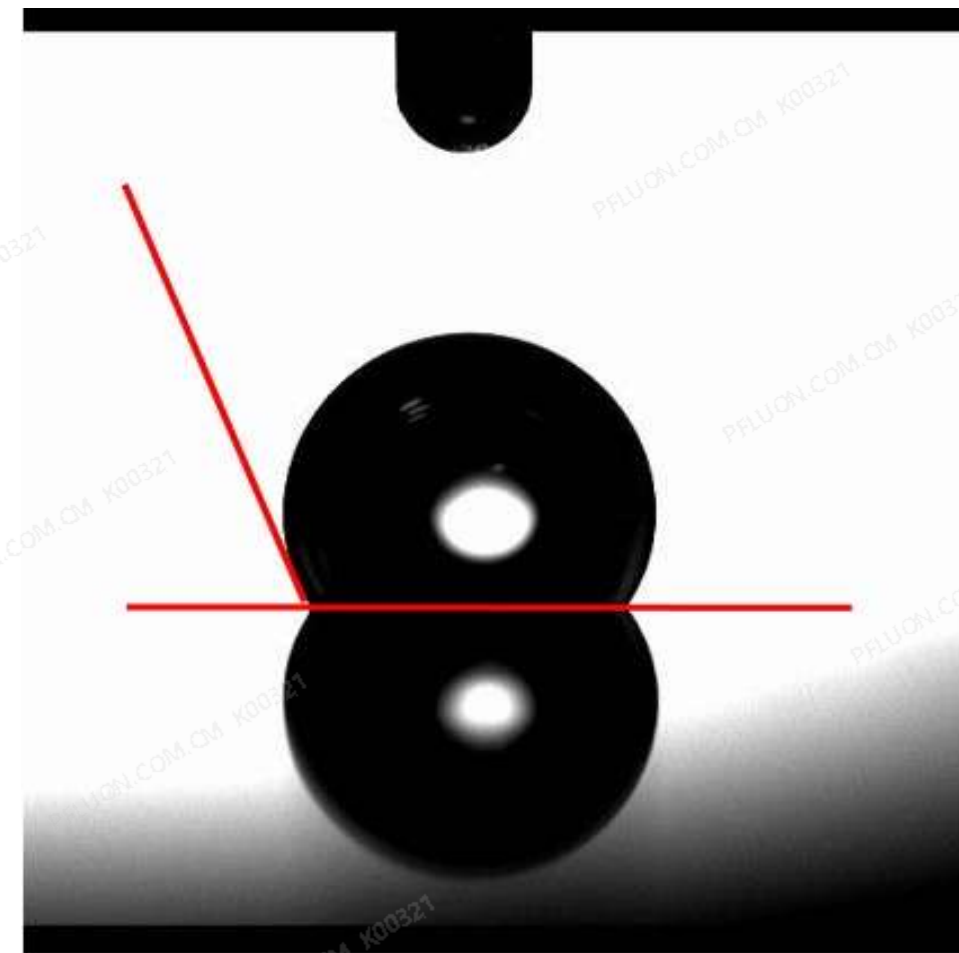
Premium™ : metal substrate is slightly revealed after 276min,



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High performance coating

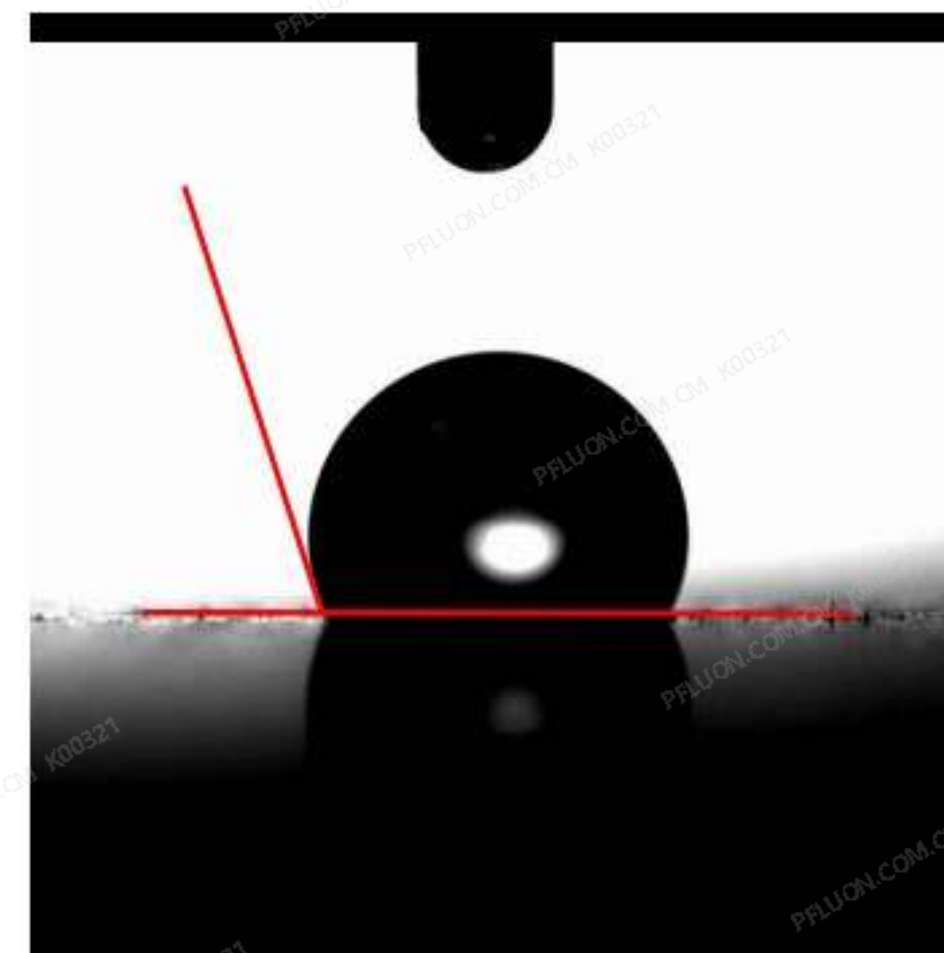
Non-stick test(Non-stick performance)

Premium™



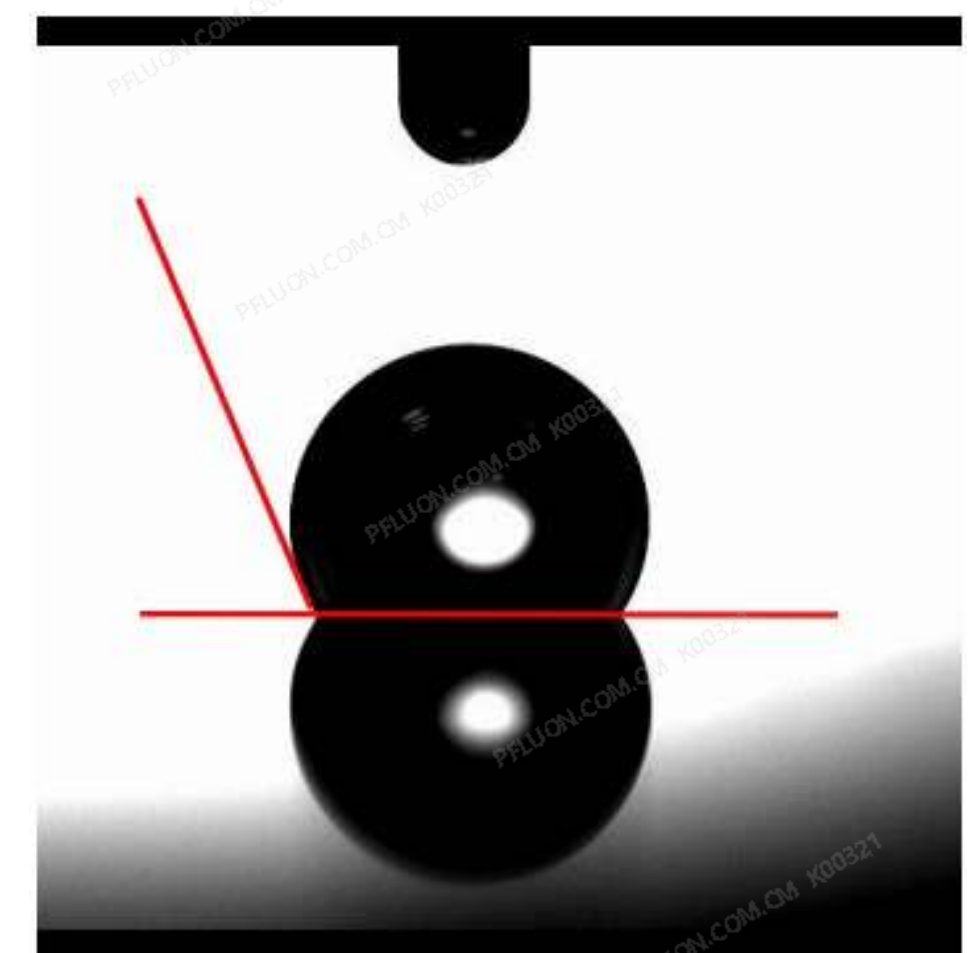
Angle of contact = 119°

**3-layer highest performance
PTFE coating**



Angle of contact = 116°

Ceramic coating 2-layer



Angle of contact = 121°

Original Non-stick function is as good as PTFE and Ceramic coating.

PREMIUM™

High performance coating

Abrasion test (Abrasion & non-stick function)

Test condition:

To abrade the coating surface (reciprocating-type) by 1.5kg pressure, at 21cm contact area, use 3M scouring pad, fry eggs after every 1000 cycles.

Ceramic coating after 1 cycle



3-layer highest performance PTFE coating after 8 cycles



Premium™ after 10 cycles



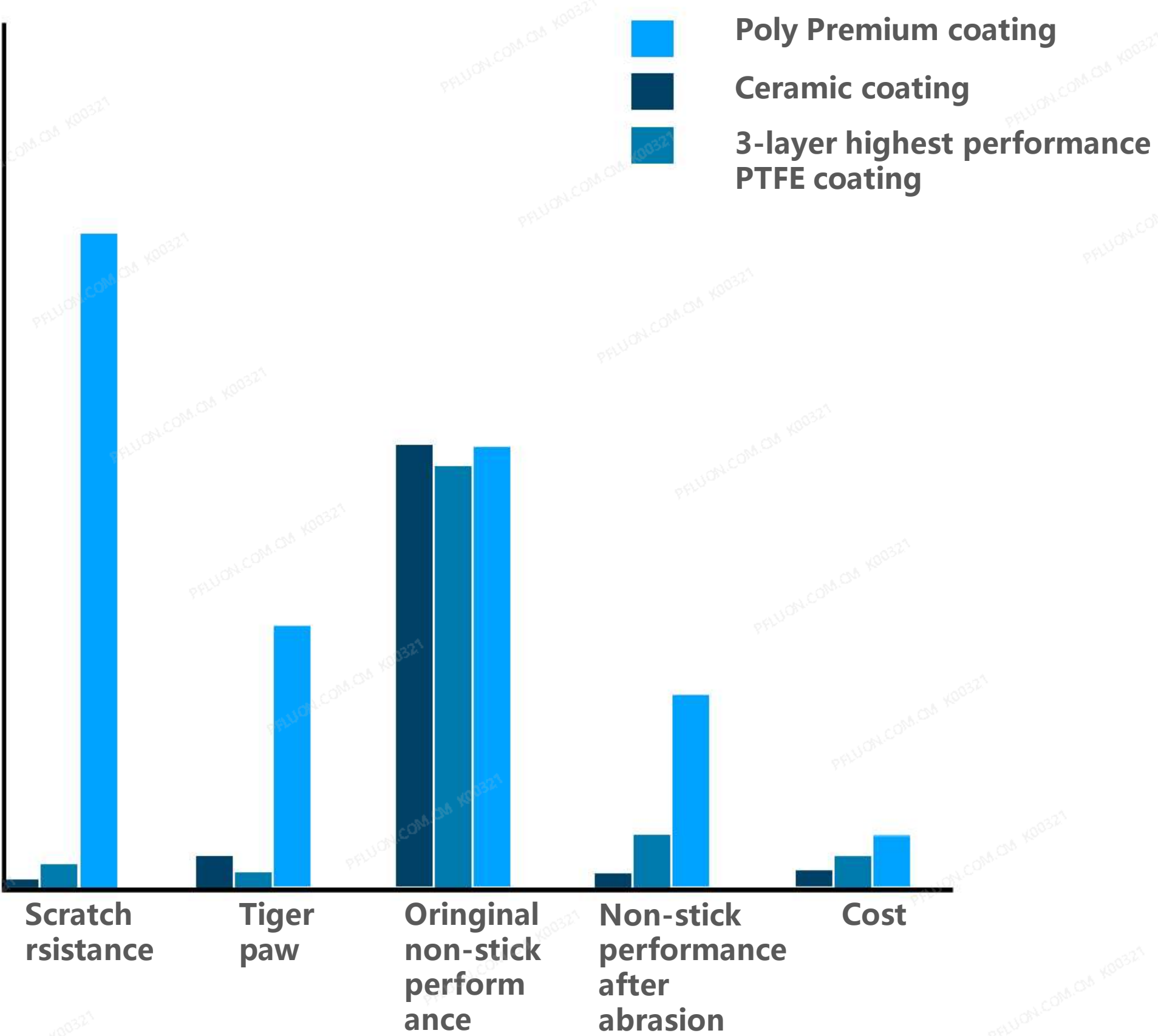
Optimal Non-stick function is much better than PTFE and Ceramic coating.

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Evaluation

Premium™ enjoys excellent initial non-stick property and extraordinary long service life. The superior scratch resistance and abrasion resistance which make up the disadvantages of normal existed coating are the innovative highlight. The application of independent R&D of new materials, making the product a higher technology starting point. Meanwhile, ensuring higher price-ratio.



PREMIUMTM
High performance coating

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Innovation, better your life.



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