

Surface treatment

Surface treatment can be possible for the purpose of rust prevention. Black Chrome treatment(BCr) is KSS standard surface treatment for the purpose of rust prevention. Please inquire KSS if other surface treatments are needed.

● Feature of KSS Ball Screws with Black Chrome (BCr) coating

- Due to thin film thickness($2\sim 3\mu\text{m}$), mating part can be applicable with BCr.
- Due to strict production management, film thickness can be treated equally and smoothness is kept.
- High anti-rust ability is possible.
- To improve sliding characteristics, BCr+fluorine resin coating is also available.



Photo A-111 : Black Chrome coating

● Examination data of anti-rust ability

Based on the salt spray corrosion test(JIS Z2371), anti-rust ability has been evaluated, as follows.

- Standard test piece : 70mm×150mm×1mm(material = SPCC)
- Data : Evaluated by appearance and rating number method after 24 hours of salt spray corrosion test. (The less number, the more corrosion)

	Rating number(Average)
Sample A(BCr coating)	9.3
Sample B(R coating)	9~8
Sample C(M coating)	3~4



Sample A



Sample B



Sample C

● About RoHS compliance

The Cr^{+6} amount of KSS Black Chrome(BCr) coating is less value than the based on RoHS regulation.