

CHEM-PLATE INDUSTRIES INCORPORATED

TRICHROMAX[®] EBONIZE HCR

A TRIVALENT BLACK COATING FOR ZINC AND ZINC ALLOYS

- **TRICHROMAX[®] EBONIZE HCR** is a very **H**ighly **C**orrosion **R**esistant TRIVALENT chrome based system designed to protect galvanized surfaces from corrosion which *is free of hexavalent chromium or toxic compounds of any kind and closely resembles black chromate in appearance.*
- **TRICHROMAX[®] EBONIZE HCR** will achieve **240 hours to White Corrosion** and **750 hours to Red Rust** over **10 microns of zinc plating.**
- **TRICHROMAX[®] EBONIZE HCR** conforms to FORD SPEC WZ 101 and GMW 3044 for *torque tension.*
- **TRICHROMAX[®] EBONIZE HCR** may be applied over *mechanical plating, hot dip galvanize, electrogalvanized (zinc plating) or any zinc alloy.*
- **TRICHROMAX[®] EBONIZE HCR** is applied over *barrel* zinc plated articles by simple immersion and then dried in standard spin drying equipment and can be baked or air dried.
- **TRICHROMAX[®] EBONIZE HCR** is very flexible while providing toughness and chip resistance at the same time.
- **TRICHROMAX[®] EBONIZE HCR** will never fill recesses.

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Where Excellence Sets The Standard

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COEFFICIENT OF FRICTION BULLETIN FOR ZINC EBONIZE[™] TRIVALENT BLACK FINISHES

Many customers have asked about the coefficient of friction of the **EBONIZE[™]** finishes and also the K-Factor. There is also interest in knowing what the old hexavalent finishes were in relation to these numbers. The following chart should clarify these questions.

FINISH	TYPE OF TOPCOAT	COEFFICIENT OF FRICTION	K-FACTOR	TORQUE @28.3Kn
HEX BLACK/O.D.	NONE	0.24-0.28	0.30-0.34	86-97
EBONIZE[™]Z/NISSAN	ORGANO-SILICATE	0.19-0.28	0.21-0.28	70-80
<i>EBONIZE[™]HCR</i>	WAX EMULSION	0.12	0.15-0.17	44-49 ¹
<i>EBONIZE Z</i>	SILICATE	0.11-0.13	0.13-0.17	40-52

All of the **EBONIZE[™] BLACK** finishes exceed 120 hours to white corrosion and 500 hours to red when tested to ASTM B-117 salt spray *and will NOT fill recesses or cause washers to stick.*

¹ This finish conforms to the torque requirements of GMW 3044 and Ford WZ 100.

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