

WEARTECH® GUARDIAN® CF

Low Cost, Crack Free Tool Joint Hardbanding

Deeper drilling and higher service requirements have created a demand for a crack free hardband which provides superior performance over existing materials.

GUARDIAN CF satisfies the demands of well operators while being cost effective and user friendly for applicators.

- Industry leader for casing wear protection
- Applicable over other hardband materials
- Exceptional tool joint life
- Weldable by Open Arc process

In the Americas and China, **GUARDIAN CF** has provided a **300% lifetime improvement** over other casing-friendly hardband materials.



Optimized for Crack Free Performance

Dye penetrant test shows the **GUARDIAN CF** hardband surface to be crack free.



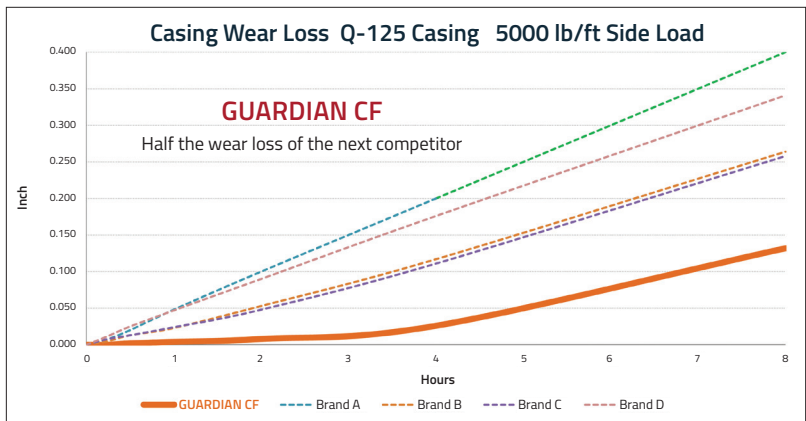
Versatile Performer

Easy application over other hardbands.

	Guardian CF	Armacor	ARNCO 100XT	ARNCO 150XT	Duraband	Tuffband	TCS Titanium
GUARDIAN CF	Yes	Yes	Yes	Yes	Yes	Yes	Yes

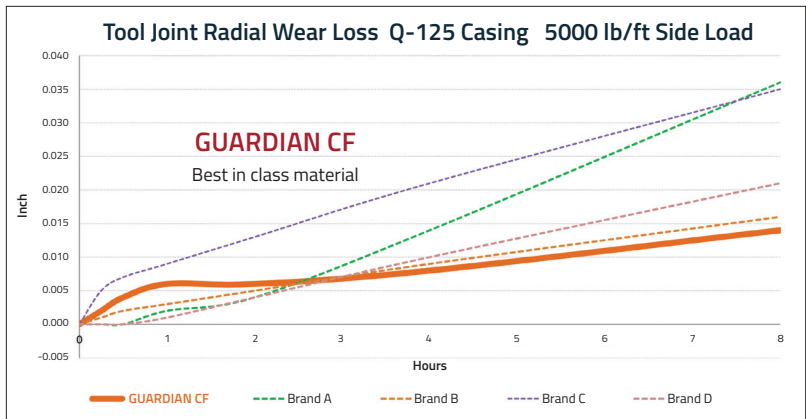
Industry Leader for Casing Wear Protection

GUARDIAN CF improves casing wear protection by more than 100% when compared to competing materials in DEA-42 testing.



Exceptional Tool Joint Wear Protection in Casing

In DEA-42 testing for tool joint wear protection in casing, **GUARDIAN CF** distances itself from competing materials.



CUSTOMER ASSISTANCE POLICY

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