



## Data Sheet

**Process:** Alpha Plus 5 Process #

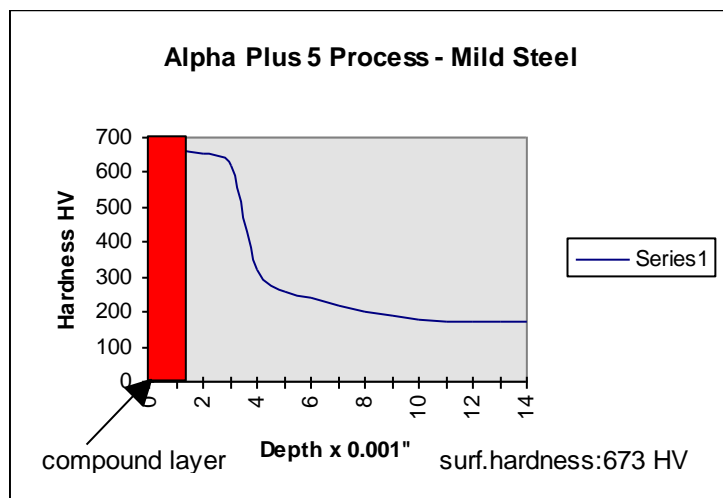
**Description:** A controlled austenitic thermo-chemical process which results in a shallow traditional case superimposed with with an appreciable compound layer greatly improving the properties obtained by classical carbo-nitriding i.e. greater scuff resistance and added corrosion resistance

**Application:** Applied to mild and low alloy steels where wear resistance and indentation resistance is required but with a minimum of distortion during processing. Eliminates the need for expensive post-treatment plating or phosphating.

**Typical components:** clutch plates, levers, handbrake ratchets, seat slides, slideways, tracks, pawls, cams

**Metallurgical Aspects:** Compound layer depth: 0.025 - 0.05 mm.  
Compound layer hardness: 800 $\mu$  HV plus  
Substrate hardness: Dependant upon material

# Alpha Plus 5 is a trademark of Huyton Heat Treatments (2010)Ltd



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