



**servis**  
heat treatment

## Data Sheet

<b>Process:</b>	<b>Alpha Plus 5 Process    #</b>
<b>Description:</b>	<b>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</b>
<b>Application:</b>	<b>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.</b>  <b>Typical components: clutch plates, levers, handbrake ratchets, seat slides, slideways, tracks, pawls, cams</b>
<b>Metallurgical Aspects:</b>	<b>Compound layer depth: 0.025 - 0.05 mm. Compound layer hardness: 800<math>\mu</math> HV plus Substrate hardness: Dependant upon material</b>

