



Applications:

IP900 is suited for applications experiencing severe sliding abrasion, with low impact and erosion.

Typical applications include:

- Cement Chute Liners
- Trommels
- Fans
- Agricultural Equipment

Specifications

IP900 Chromium Carbide Overlay Plate is manufactured in accordance with Australian

Standard AS/NZS 2576:2005 Gr 2560 specifications for hard facing alloys and is compliant with the microstructure, chemistry and hardness requirements of grade 2560 alloy material, as per Group 2 Alloys (Table 2.2) Type 25 alloy material.

Microstructure

IP900 Chromium Carbide Overlay Plate consists of between 20% to 40% primary M_7C_3 complex carbides in a eutectic matrix of martensite and carbide.

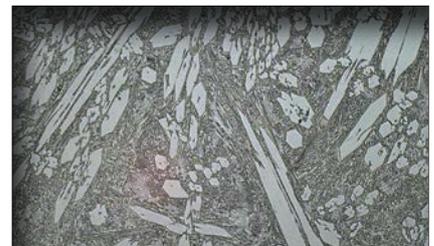
Technical Notes:

Within the standard the grade designation, for example 2560, indicates the alloy type "25", and the hardness in Rockwell HRC "60". Therefore, a "60 HRC" grade must have a minimum of 60 HRC, and a maximum of 64 HRC as an average hardness, and 2565 must have an average hardness ranging between 65 to 68 HRC.

All hardness testing within our Metallurgical laboratory is performed on a Vickers Hardness tester; therefore, all HRC values are a conversion from HV50 to HRC.

Due to the nature of the welding process actual hardness and volume fraction of primary carbides can vary across and throughout a plate. The above properties are typical for all plates with an undiluted overlay.

Chemistry*			
	%C	%Cr	%B
Range (Top layer)	3.5 - 5.0	18 - 35	2 max.
* - Mn & Si added as minor elements..			
Hardness			
	Vickers HV50	Rockwell HRC	
Typical Range (average)	730 - 830	60 - 64	
Backing Plate AS/NZS 3678-250 (ASTM A36)			



Inter-plate IP900 AS/NZS 2576:2005
Martensitic Chromium Carbide Overlay x 100 magnification