



COMPARISON OF MILD STEEL AND ABRASION RESISTANCE TO CHROME CARBIDE LIFESPAN

<u>Overall Plate</u>	<u>Approx life of</u>	<u>Approx life of</u>	<u>Approx life of</u>	<u>All overlay plate is laminated A-36 with T 200X Chrome Carbide Overlay</u>					
<u>Thickness</u>	<u>Carbon Steel</u>	<u>AR 400</u>	<u>AR 500</u>	<u>1/8" Overlay</u>	<u>3/16" Overlay</u>	<u>1/4" Overlay</u>	<u>5/16" Overlay</u>	<u>3/8" Overlay</u>	<u>1/2" Overlay</u>
1/4"	4 weeks	8 weeks	12 weeks	N/A					
5/16"	5 Weeks	10 weeks	15 weeks	37 weeks					
3/8"	6 weeks	12 weeks	18 weeks	38 weeks					
7/16"	7 weeks	14 weeks	21 weeks	39 weeks	57 weeks				
1/2"	8 weeks	16 weeks	24 weeks	40 weeks	58 weeks	76 weeks			
9/16"	9 weeks	18 weeks	27 weeks		59 weeks	77 weeks	95 weeks		
5/8"	10 weeks	20 weeks	30 weeks	42 weeks		78 weeks	96 weeks		
11/16"	11 weeks	22 weeks	33 weeks		61 weeks		97 weeks	115 weeks	
3/4"	12 weeks	24 weeks	36 weeks	44 weeks		80 weeks		116 weeks	
13/16"	13 weeks	26 weeks	39 weeks		63 weeks		99 weeks		
7/8"	14 weeks	28 weeks	42 weeks	48 weeks		82 weeks		118 weeks	
15/16"	15 weeks	30 weeks	45 weeks		65 weeks		101 weeks		
1"	16 weeks	32 weeks	48 weeks			84 weeks		120 weeks	152 weeks
1 1/4"	20 weeks	40 weeks	60 weeks					121 weeks	
1 5/16"	21 weeks	42 weeks	63 weeks				104 weeks		
1 1/2"	24 weeks	48 weeks	72 weeks						
1 3/4"	28 weeks	56 weeks	84 weeks						
2"	32 weeks	62 weeks	96 weeks						

***Note:**

The purpose of the above chart is to assist in the selection of materials for individual applications in order to meet or extend the production timelines between shutdowns.

Providing the current material type, thickness and the installation date is known, the above chart can be used to evaluate other materials or thicknesses in order to reduce downtime and assist in control of maintenance costs.

I.E. An application using 1" AR 400 plate, that lasts 6 months between shutdowns could last 9 months (1.5 times) with AR 500 or 28.5 months (4.75 times) 1" Chrome Carbide plate (1/2" A-36 w 1/2" overlay)

The Chrome carbide sizes shown above are Triten's standard laminations only. We also offers custom laminations. The maximum suggested thickness of the chrome carbide portion should not exceed 1/2". However, the mild steel portion can be any thickness as long as it meets or exceeds that of the Chrome carbide.

I.E. 2" overall plate thickness = 1 1/2" A-36 with 1/2" CC and would last approx 168 weeks under the scenario above.

These timeline values are approximations only, as the severity of abrasion, degree of impact, and volume of material flow can vary from application to application