

# MATERIALS AND FINISHES

Material	Availability	Interchangeability Code			
		Anderton	Truarc	IRR	Rotor Clip
<b>Carbon Steel</b> (SAE1060-1090) Austempered for maximum performance. Maximum recommended operating temperatures for rings: 480°F (300°F under severe stress).	<b>All rings except</b> 1400 sizes 12 thru 23 1500 size 4 Series 500 thru 1000 (hard drawn carbon steel, work hardened and stress relieved)	S	S	ST	ST
<b>Stainless Steel*</b> PH 15-7 Mo (Armco) Precipitation hardened. Withstands all dilute non-acidic chemicals. The most effective material for long term resistance to industrial atmospheres. Maximum recommended operating temperatures for rings: 1000°F (850°F under severe stress).	N1300 sizes 25 thru 150 1308 sizes 75 thru 150 1400 sizes 25 thru 200 1408 sizes 50 thru 200 1440 all sizes 1460 sizes 39 thru 66 1500 all sizes except 4 1501, 1540, 1800 all sizes Other series & sizes on application	AS	H	SS2	SS2
<b>Beryllium Copper*</b> Alloy 25 Precipitation hardened. Poor resistance to industrial atmospheres but widely used in marine applications. Maximum recommended operating temperatures for rings: 660°F for limited period of time.	N1300 sizes 25 thru 150 1308 sizes 75 thru 150 1400 sizes 12 thru 200 1408 sizes 50 thru 200 1440 all sizes 1460 sizes 39 thru 66 1500, 1501, 1540, 1800 all sizes Other series & sizes on application	BC	C	BC	BC

\*Not all sizes in Stainless Steel and Beryllium Copper in stock — inquire for availability.

Finish	Suitability	Interchangeability Code			
		Anderton	Truarc	IRR	Rotor Clip
<b>Phosphate</b>	Zinc-based coating sealed with lanolin-based oil. Provides added shelf-life plus a measure of protection in corrosive environments. Used as the standard finish for several PP series of rings. Coating weight in excess of 1000 mg/ft <sup>2</sup> .	PP	PP	PA	PA
<b>Bright Zinc*</b>	Forms a barrier between the steel substrate and the corrosive environment. It is preferentially attacked, forming sacrificial anodes in the circuit made by its contact with the steel. Superior to Cadmium in general industrial use and considerably less expensive. Should not be used in conjunction with alkaline solutions, hot water or steam. Though not as toxic as Cadmium, it is not recommended for use where prolonged contact with foodstuffs is involved.	ZP	Z	ZB	ZF
<b>Zinc Dichromate**</b>		ZD	ZD	ZD	ZD

\*Bright finish rings are clear passivated to improve resistance to finger stains and normal darkening during storage.

\*\*Dichromate is a post-plating process, improving corrosion resistance and restricting the formation of "white rust" on Zinc plated surfaces under humid conditions. It has a yellowing effect on the finish.

