

Wear and Galling Resistance Chart of Material Combinations

MATERIAL	304 Stainless Steel	316 Stainless Steel	Bronze	Inconel	Monel	Hastelloy C	Nickel	Alloy 20	Type 416 Hard	Type 440 Hard	17-4PH	ENC ⁽¹⁾	Cr Plate	Al Bronze
304 Stainless Steel	P	P	F	P	P	F	P	P	F	F	F	F	F	F
316 Stainless Steel	P	P	F	P	P	F	P	P	F	F	F	F	F	F
Bronze	F	F	S	S	S	S	S	S	F	F	F	F	F	F
Inconel	P	P	S	P	P	F	F	F	F	F	F	F	F	S
Monel	P	P	S	P	P	F	F	F	F	F	F	F	F	S
Hastelloy C	F	F	S	F	F	F	F	F	F	F	F	F	S	S
Nickel	P	P	S	P	F	F	P	P	F	F	F	F	F	S
Alloy 20	P	P	S	F	F	F	P	P	F	F	F	F	F	S
Type 416 Hard	F	F	F	F	F	F	F	F	F	F	F	S	S	S
Type 440 Hard	F	F	F	F	F	F	F	F	S	F	S	S	S	S
17-4PH	F	F	F	F	F	F	F	F	F	S	P	S	S	S
ENC ⁽¹⁾	F	F	F	F	F	F	F	F	S	S	S	P	S	S
Cr Plate	F	F	F	F	F	S	S	S	S	S	S	S	P	S
Al Bronze	F	F	F	S	S	S	S	S	S	S	S	S	S	P

1. Electroless Nickel Coating

S - Satisfactory

F - Fair

P - Poor