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Since 1975

Corrosion Resistant 555

Wexco 555 is a nickel base alloy inlay with high chromium content for corrosion resistance against hydrochloric and other mild acids. 555 is recommended for use in mild to moderate abrasive and corrosive process environments. It has a dual-phase microstructure with complex borides that provide excellent wear resistance. It provides a typical hardness range of Rockwell C 50-54.

555 is compatible with many screw flight hard facing materials and metal constructions. The majority of the time it is mated with triple plated 4140, 17-4 PH stainless steel, Inconel or other high nickel alloy that is hard faced with C56. Compared against general purpose nitride barrels, 555 typically provides five times longer service life.

555 is suitable for use in mild abrasive and moderate corrosive wear environments.

555 is available in complete barrel assemblies, As-Cast, semi-finished barrel blanks, Twin liners and shrink-fit liner types.

Abrasion Resistant 666

Wexco 666 is a general-purpose nickel-chrome alloy inlay with boron and silicon hardening agents. It provides a service life of at least four times that of nitrided barrels, and a hardness range of Rockwell C 60-63. 666 inlay is recommended as bore protection in medium abrasion and mild corrosion environments. The 666 bore protection consists of a Chromium-nickel-boron base iron alloy with a high hardness, martensitic structure in a cementite matrix.

666 is compatible with most screw flight hard facing materials and metal constructions such as Colmonoy C56, C57, C83, C88 and Stellite 12. It is also suitable to be used with flame hardened and chrome plated 4140 and Nitralloy 135M.

Compared against general purpose nitride barrels, 666 provides four times longer service life.

666 is suitable for use in moderate abrasive and corrosive wear applications. The alloy is suitable and may be used with a majority of less than 10% filled resin materials processing at medium temperatures and rpm speeds.

666 is available in complete barrel assemblies, As-Cast, semi-finished barrel blanks, Twin liners and shrink-fit liner types.

Abrasion/Corrosion Resistant 777

Wexco 777 abrasion resistant bimetallic inlay is a high content spherical-shaped tungsten-carbide alloy bound in a chromium-nickel alloy. Tungsten carbide provides the primary wear resistance with the high chromium-nickel alloy providing additional wear and corrosion resistance. 777 offers a hardness range of Rockwell C61-68. Over 75% volume of this alloy is occupied by solid tungsten carbide particles that are uniformly dispersed in a hard corrosion resistant chromium/nickel base alloy. The tungsten carbide particles indicate a micro hardness of over DPH 4000 (exceeding Rc 70). 777 inlay is recommended for use in abrasive and moderately corrosive process environments.

777 is compatible with most screw flight hard facing materials and metal constructions such as Colmonoy C83, C57, C56, Carbide encapsulated, Stellite 12 and CPM materials.

Compared against conventional bimetal barrels, 777 provides three to four times longer service life, and in excess of 8 times longer service life as compared to nitride barrels.

777 is suitable for use in high wear applications. The alloy is suitable and may be used with a majority of glass and mineral re-enforced resin materials processing at high temperatures and rpm speeds.

777 is available in complete barrel assemblies, As-Cast, semi-finished barrel blanks, Twin liners and shrink-fit liner types.

Corrosion Resistant BO22

Wexco BO22 is ideal for processing Fluoropolymers and other severely corrosive resins. It is a nickel-rich, boron-base alloy that contains 14% molybdenum, 12% chrome, and is approximately 70% nickel enriched with complex borides and carbides. These elements allow it to maintain its high temperature hardness of Rockwell C 50 or above (at 700 degrees Fahrenheit). BO-22 bimetallic cylinder liners are made using a lower temperature HIPed (hot isostatic pressing) process. This allows an iron free product with no porosities. Molybdenum and its alloying elements are superior in corrosion resistance against halogen containing elements. This reduces acid attack compared with conventional nickel-cobalt base alloy liners made by competing manufacturers.

BO22 is compatible with many screw flight hard facing materials and metal constructions. The majority of the time it is mated with corrosion resistant base metals - XC4000 coated or C56 hard face Inconel or other high nickel alloy.

Compared against other corrosion resistant barrels, BO22 typically provides 3-4 times longer service life.

BO22 is suitable for use in extreme corrosive wear environments.

BO22 is available in complete barrel assemblies and liners.