

Introduction

SS431 is the powder that contains high chromium stainless steel which is similar to SS420. The powder produces general purpose coatings that combine moderate to good wear and corrosion resistance which is especially used when heavy coating build-up is needed. It is used when there is something wrong with mild abrasive grains, particle erosion, fretting and hard surface wear. It can also be used for salvage and buildup of grindable carbon and corrosion resistant steels.

Equivalent: Metco 42, FST M-687

Chemical Composition

Fe	Cr	Ni	C
Bal.	17%	2%	0.18%

Applications

- Hard bearing surfaces: bearing journals, sleeves, fuel pump rotors
- Resist hard surfaces (low temperature): wire drawing capstans, mechanical seals, pump seals
- Resist particle erosion (low temperature): exhaust fans, hydroelectric valves

Physical Properties

Morphology	irregular
Working Temperature	≤ 540°C (1000°F)
Production Method	Water Atomized

Packaging

Bottle	5kg/bottle 4 bottles/box
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