

Introduction

S420 powder is a stainless steel powder that is optimized for wear resistance. Meanwhile it still has fairly good corrosion resistance in general atmospheric and industrial environments. The coatings is hard and it is suitable for applications where requires wear resistance and for dimensional repair of steel parts. They are recommended to be used at temperatures below 540 °C (1000 °F).

Equivalent: Metco 1002

Chemical Composition

P	Fe	Cr	Mn	S	Si	C
≤0.03%	Bal.	12-14%	≤1.0%	≤0.03%	≤1.0%	≥0.15%

Applications

- Resist abrasive grains (low temperature):
crankshaft bearings, cylinder liners, pistons, pump plungers, hydraulic rams
- Resist fretting (intended or non-intended motion): machine bedways, press fits bearing seats, wear rings
- Salvage and build-up of grind able steels: mis-machined parts, worn parts

Physical Properties

Morphology	irregular
Working Temperature	≤ 540°C
Production Method	Water Atomized

Packaging

Bottle	5kg/bottle 4 bottles/box
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