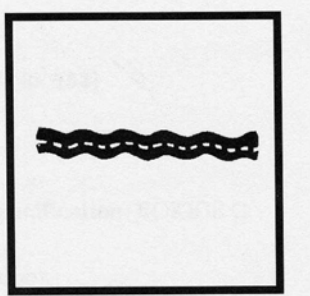


**CASE HISTORY
INFORMATION**



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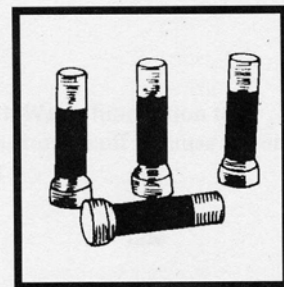
PAPER

- Pump Sleeves, Impellers and Casings
- Uhle Rods
- Calendar Rolls
- Moyno Rotors
- Refiner Sleeves
- Jordan Sleeves
- Claflin Sleeves



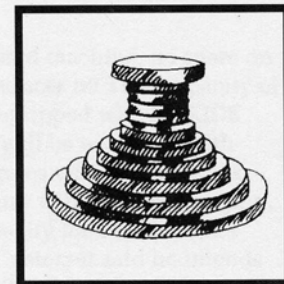
PETROCHEMICAL

- Pump Sleeves
- Pump Shafts
- Pump Impellers
- Pump Casings
- Mechanical Seal Faces



OIL

- Pump Plungers
- Mud Pump Shafts
- Compressor Rods
- Pump Sleeves



WIRE

- Wire Drawing Capstans
- Wire Sheaves
- Wire Drawing Rolls
- Wire Pulleys



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CASE HISTORY #80

Industry: Paper (board)

Application: Stock Pump (pulp)

Equipment Manufacturer: Lawrence Pump and Engine Company

Model: RST 6x 8 (Equipment No. 152)

Part(s) Coated: Pump Sleeves

ROKIDE Coating Type and Specification: ROKIDE C

Location: Stock Pump at Headbox

Service: Pump feeds pulp directly to headbox of fourdrinier machine making roofing board and similar heavy insulation board.

Chemical Environment : Acid

Temperature: 120F

RPM: 1150

GPM: 100

Head: 100ft.

Material Handled: Pulp fillers (clay/copper sulfate/alum)

pH: 5.5-6.5

Solids %: 2 1/4

Size of Particles:

Velocity of Particles:

Lubrication(if applicable): Water lubrication to stuffing box (sometimes turned off because water line becomes plugged)

	Material	Life
Part Life:		
Before:	304 Stainless Steel	6 months-1 yr
After:	ROKIDE C on 304 S.S	12 months +

Comments: One pump per board machine, no spare on line. Each board machine produces 60 TPD, capacity of mill is 300 TPD. One pump equipped with ROKIDE coated sleeve rest of facility will be equipped with ROKIDE coated sleeves. Operates 4-5 days per week, 24 hours per day. Sleeve failure will affect production, shutting down 30 TPD of capacity for 8 hours, time required to change a sleeve. Customer said he intends to convert all sleeves to ROKIDE C.

CASE HISTORY #81A

Industry: Paper

Application: Defibrator (wood)

Equipment Manufacturer: American Defibration Company

Model: Type C

Part(s) Coated: Defibrator Sleeve

ROKIDE Coating Type and Specification: ROKIDE C

Location: Prior to "Cookers"

Service: Defibration of wood; prepares initial wood for further treatment in manufacture of asphalt tiles.

Chemical Environment: Acid

Temperature: 380F; 150 psi steam

RPM: 620

GPM: 19 T.P.D

Head:

Material Handled: Wood in steam

pH: 5.5-6

Solids %: 70

Size of Particles:

Velocity of Particles :

Lubrication (if applicable): Waters runs into the stuffing box. It is occasionally shut off inadvertently, but this has not affected ROKIDE coated sleeves adversely

	Material	Life
Part Life		
Before	Stainless Steel	2 months
After	ROKIDE C plus S.S	12 months

Comments : Eight defibrators in service, three have now been equipped with ROKIDE Coated shaft sleeves. Eight defibrators now equipped with ROKIDE sleeves. None show signs of wear. Original installation now shows at least 12 times life of sleeves previously used. Packing life increased about 6 times.



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CASE HISTORY #82

Industry: Chemical– Hot Pitch

Application: Recycling Pump (Hot Pitch)

Equipment Manufacturer: Worthington Corp.

Model: Type GRJ– Steam Jacketed Rotary Gear Pump

Part(s) Coated: Pump Sleeves

ROKIDE Coating Type and Specification: ROKIDE C

Location: Hot Pitch Storage Area

Service: Recycling hot pitch in storage tanks (to prevent localized cooling and freezing) and to feed hot pitch to make-up area.

Chemical Environment:

Temperature: 110-120°C

RPM: 640

GPM: 50

Head: 40-50

Material Handled: Pitch at 110-120°C

pH:

Solids %:

Size of Particles:

Velocity of Particles:

Lubrication (if applicable) : Hot pitch is non-lubricating

	Material	Life
SLEEVE		
Before	Bronze journal in cast iron	24-49 hours service
After	ROKIDE C	2 1/2 years
In cast iron bushing		
SHAFT		
Before	Steel	48 hrs up to 8 wks
After	ROKIDE C	2 1/2 years

Comments : In the make-up area, carbon is added to form carbon anode for reduction of bauxite to aluminum. Original pump was equipped with 4 ball bearings mounted within the pump cavity. These bearings wore out in 24-49 hours service due to the non-lubricating aspect of the pitch, which circulated around the ball bearings. Customer redesigned the pump using a bronze journal in a cast iron bushing. This change increased the life of the bearing area 4-6 weeks. Customer then changed to ROKIDE C in a cast iron bushing with a resultant increase to 2 1/2 years, although pumps went on intermittent service (as opposed to 24 hour continuous duty initially). Life increase calculated on operating hours is 15:1 over the bronze bushing design. Customer is completely satisfied with the application.

CASE HISTORY #83

Industry : Paper (Coated)

Application: Moyno Rotors (Fillers)

Equipment Manufacturer: Robbins & Meyers

Model: CDA-2L3 (Ser. No. 30021)

Part(s) Coated: Rotor

ROKIDE Coating Type and Specification: ROKIDE C

Location: Coating room; handles pigments and fillers for color coating of paper.

Service : Pump feeds dyes and filters to flood nip of coating machine for application of same to one side of paper sheet

Chemical Environment: neutral

Temperature: 75°F

RPM: 200

GPM: 20

Head :

Material Handled : Clay, Latex, Calcine, Pigments

pH: 7

Solids %:40

Size of particles:

Velocity of particles:

Lubrication (if applicable):

	Material	Life
STATOR		
Before	Rubber	4wks to 6 mos.
After	Rubber	Indefinite unless pump runs dry in an error
ROTOR		
Before	Chromium plated Tool steel	4 wks. to 6 mos.
After	ROKIDE Coated Tool steel	3 1/2 years

Comments: There are 4 coating machines, each with a pump supplying coating material to the machine. Three are equipped with Moyno, one with an old stroke pump, which will shortly be replaced with a Moyno. Customer plans to install ROKIDE coated rotors on all pumps. Down time does not affect production. No spare pumps are available. Equipment occasionally runs dry; previously, this error caused lost of the stator and plus 2 1/2 hours downtime to replace these parts. With ROKIDE coated rotor, customer finds that running pump dry does not damage rotor or frequently stator is not burned. When failure occurs, only the rubber stator is lost, resulting in one hour of downtime to replace.

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CASE HISTORY #85

Industry: Paper

Application: Stock Pump

Equipment Manufacturer: Nagle Company

Model: vertical

Part(s) Coated: Pump Sleeves

ROKIDE Coating Type and Specification: ROKIDE C

Location: Stock Preparation Area

Service: Used for stock preparation which consists of heavy asbestos pulp, as well as board.

Chemical Environment: Neutral

Temperature: 100F

RPM:

GPM:

Head:

Material Handled: Asbestos Pulp

pH:

Solids %:

Size of particles:

Velocity of particles:

Lubrication (if applicable):

	Material	Life
Part life Before	Stainless Steel	1 month
After	S.S with ROKIDE C	9 months

Comments :

CASE HISTORY #86

Industry: Wire

Application: Wire Drawing

Equipment Manufacturer: Morgan Construction Company

Model: HFW-11

Part (s) Coated: Stepped Capstan

ROKIDE Coating Type and Specification: ROKIDE C

Location: Wire drawing machine

Service: Wet drawing of copper-coated low carbon wire, SFM 900 average; 054" diameter drawn down to .008".

Chemical Environment: Copper sulfate

Temperature:

RPM:

GPM:

Head:

Material Handled :

pH :

Solids % :

Size of particles:

Velocity of particles:

Lubrication (if applicable):

	Material	Life
Part life Before	Cast Iron	1 1/2 months
After	Cast Iron plus ROKIDE C	18 months +

Comments: This plant is converting completely to ROKIDE Coated Capstans.



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CASE HISTORY #90

Industry: Chemical (Inorganic)

Application: Raw Water for Cooling in Rubber Wheel Dept.

Equipment Manufacturer: Ingersoll-Rand

Model: 2ERVH-25 Serial No. C62-3817

Part(s) Coated: Casing and impeller wear rings, shaft at bearing areas, intermediate and top bearings.

ROKIDE Coating Type and Specification: ROKIDE C

Location: Weasel Pond Pump House (Bldg. No. 565).

Service: Feeds raw water to calendar rolls and presses. Water contains abrasive waste from grinding wheel plants received as surface wash-off of*.

Chemical Environment : Neutral

Temperature : Ambient or slightly above

RPM : 3550

GPM : 150

Head : 250 ft.

Material Handled: Water with Al₂O₃ & SiC Abrasives

pH: 7

Solids %: 1/2-1

Size of particles: Fines

Velocity of particles:

Lubrication (if applicable):

	Material	Life
WEAR RING		
Before	Brass for impellers Brass casing wear ring	4 months
After	ROKIDE C	24 months
SHAFT		
Before	Steel shaft bearing area were brass	4 months
After	ROKIDE C	24 months

Comments : *abrasives from streets, etc.

Pump is a special design unit with 5' long vertical shaft.

ROKIDE C has provided a 6 times increase in life.

CASE HISTORY #91

Industry: Petroleum

Application: Catalyst Recirculating Pump

Equipment manufacturer Ingersoll-Rand

Model: Cycloflow, 1 1/2 x 3

Part(s) Coated : ROKIDE C applied to all wetted surfaces of pump housing, stuffing box extension and impeller.

Location: At settling tank adjacent to catalyst cracker.

Service: Pump handles heavy bottoms and catalyst from settling tank reintroducing catalyst into top of catalyst cracker to begin new cracking cycle.

Chemical Environment: Heavy molecular weight petroleum oils.

Temperature: 450 - 600F

RPM: 3600

GPM: 90

Head: 185 ft

Material Handled: Heavy bottoms from cat.cracker w/ catalyst

pH: 7

Solids %:20

Size of particles: Under 40 microns

Velocity of particles:

Lubrication (if applicable):

	Material	Life
CASING		
Before	Cast Steel , SS, Ni-Hard	4-6 weeks
After	Cast Steel , ROKIDE C	9 months, still in excellent condition
IMPELLER		
Before	Cast Steel , SS,Ni-hard	4-6 weeks
After	Cast Steel , ROKIDE C	9 months, still in excellent condition
SUCTION PLATE		
Before	Cast Steel , SS,Ni-hard	4-6 weeks
After	Cast Steel , ROKIDE C	9 months, still in excellent condition

Comments : First pump went 8 1/2 months service, over 5 times increase in life. The customer has converted their slurry pumps to ROKIDE-lined units because a 3 times increase in life justifies a ROKIDE coating

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CASE HISTORY #101

Industry: Paper

Application: Fillers for pulp stock

Equipment Manufacturer: Robbins and Meyers

Model: 2L10

Part (s) Coated: Rotor

ROKIDE Coating Type and Specification : ROKIDE C

Location:

Service:

Chemical Environment:

Temperature: 140F

RPM: 350

GPM: 200

Head: 40'

Material Handled: starch and clay

pH: 5-6

Solids %: 35

Size of particles:

Velocity of particles:

Lubrication (if applicable)

	Material	Life
Part life		
Before	Chrome plating	4-5months
After	ROKIDE C	5 months +

Comments : The customer reports that since the installation of the ROKIDE coated rotor and shaft, this pump has not required maintenance of any type.

CASE HISTORY #115

Industry : Paper

Application : Fillers for pulp stock

Equipment manufacturer: Robbins and Meyers

Model: 2L10 frame #10

Part (s) Coated: Pump Shaft

ROKIDE Coating Type and Specification: ROKIDE C

Location:

Service:

Chemical Environment:

Temperature: 140F

RPM: 350

Gpm: 200

Head: 40'

Material Handled: Starch and Clay

pH: 5-6

Solids %:35

Size of particles: 200 mesh or finer

Velocity of particles:

Lubrication (if applicable):

	Material	Life
Part life		
Before	Chrome plating	2-3 months
After	ROKIDE C	5 months +

Comments:



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CASE HISTORY #121

Industry: Wire

Application: Tin and Coppered Steel Wire

Equipment manufacturer.: Coulter & Mc Kensie
Machine Co.

Model:

Part (s) Coated: 4 Carriers D8968-W; 7 Dual Conical
Groove Carriers of Mechanite.

ROKIDE Coating Type and Specification: ROKIDE C

Location:

Service: Tin and coppered steel wire (1018) - 90,000 psi-
start. 0915 draw to .025-.045; 1000 fpm, 2% slip

Chemical Environment:

Temperature:

RPM:

GPM:

Head:

Material Handled:

pH:

Solids %:

Size of particles:

Velocity of particles:

Lubrication (if applicable):

	Material	Life
Part life		
Before	Mechanite & Chrome	5-6 monhs
After	ROKIDE C	20-30 months

Comments : Four to five times life increase; working fine.
Have also coated Model C19032-W with success.

CASE HISTORY #127

Industry : Paper

Application : River Pump (#68)

Equipment Manufacturer : Cameron Div., I-R

Model : 18 HV

Part (s) Coated : Pump sleeve

ROKIDE Coating Type and Specification : ROKIDE C

Location: River Bank Pump House, Pump #1.

Service: transfer river water up to settling basin.

Chemical Environment:

Temperature: 60F

RPM: 900

GPM: 15,000

Head:

Material Handled: River Water

pH: 7

Solids %: Sand, Silt, Pebbles

Size of particles:

Velocity of particles:

Lubrication (if applicable): Water Through Lantern Ring

	Material	Life
Part life		
Before	Bronze	6months
After	Mechanite & ROKIDE C	Novisible wear in 6 months

Comments : Inspection revealed no wear on sleeves where
bronze would be badly grooved and had to be replaced.
During previous experience, packing had to be replaced
frequently because of leakage. During use with ROKIDE
coated sleeves, packing was not changed during six month
period. Mill installed ROKIDE coated sleeves on 2 other
18" HV' s and 1-12 HLV on this same service.

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CASE HISTORY #167

Industry: Paper

Application: End Dams

Equipment Manufacturer:

Model:

Part(s) Coated: 1 Pair of End Dams

ROKIDE Coating Type and Specification: ROKIDE C

Location: On machine-paper coating

Service:

Chemical Environment:

Temperature:

RPM:

GPM:

Head:

Material Handled: coating clay and titanium dioxide

pH:

Solids %:

Size of particles:

Velocity of particles:

Lubrication (if applicable):

	Material	Life
Part life Before	Stainless Steel	2-3 months
After	S.S. plus ROKIDE C	11 months +

Comments : Dams contact ends of two rubber rolls with flooded nip of coating slurry. Material must not leak out; too valuable and too messy. Tried wood and plastic dams. Not at all satisfactory. Stainless was best, lasting two to three months, but became badly scored, thus cutting ends of rubber rolls with risk of black specks in coating. ROKIDE coated dams "not scratched" after 11 months and no damage to roll ends. Ordered 5 more pairs

CASE HISTORY #200

Industry: Abrasives

Application: Pressure for Hydraulic Presses

Equipment manufacturer: Worthington Corporation

Model: 1X4VTE-1

Part (s) Coated: Pump Plungers

ROKIDE Coating Type and Specification: ROKIDE C

Location: "A" Street Power House #1 Pump

Service :

Chemical Environment :

Temperature : Ambient

RPM : 324

GPM : 12.4

Head : 10,400'

Material Handled: Water Plus Soluble Oil

pH: 5-6

Solids %:

Size of particles:

Velocity of particles:

Lubrication (if applicable):

	Material	Life
Part life Before	Chrome Plated	8-500 hrs
After	Stainless Steel ROKIDE C on S.S.	1787 hrs +

Comments :



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CASE HISTORY #201

Industry: Chemical

Application:

Equipment Manufacturer: Union Pump Company

Model: 5x6

Part(s) Coated: Pump Sleeve

ROKIDE Coating Type and Specification: ROKIDE C

Location:

Service:

Chemical Environment :

Temperature: 70°

RPM: 1950

Gpm: 100

Head: 40'

Material Handled: Lime and Water

pH:

Solids %: 10% max.

Size of particles: 1/16 or smaller

Velocity of particles:

Lubrication (if applicable):

	Material	Life
Part life Before	Brass	1 month
After	ROKIDE C	5 months +

Comments : The pump was torn down after 3 months service and sleeves show no signs of wear.

CASE HISTORY #203

Industry: Paper

Application: Condensate Pump

Equipment Manufacturer: Gould Pumps, Inc.

Model: 3460 Size #2

Part (s) Coated: Pump Sleeves

ROKIDE Coating Type and Specification: ROKIDE C

Location: Boiler House

Service: Returns Condensate to Boilers for Recirculation.

Chemical Environment:

Temperature: 200F

RPM: 1750

GPM: 120

Head: 100'

Material Handled: Water Plus Boiler Additives

pH: 6.5

Solids %:

Size of particles:

Velocity of particles:

Lubrication (if applicable):

	Material	Life
Part Life Before	Brass	2-3 months
After	ROKIDE C	19 months +

Comments : ROKIDE Coated sleeves and original packing still in operation after 19 months .

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CASE HISTORY #204

Industry: Paper

Application: Condensate Pump

Equipment Manufacturer: Goulds Pump, Inc.

Model: 3460 Size #2

Part(s) Coated: Pump Sleeves

ROKIDE Coating Type and Specification: ROKIDE C

Location: Boiler House

Service: Returns Condensate to Boilers for Recirculation.

Chemical Environment:

Temperature: 200F

RPM : 1750

GPM: 120

Head : 100'

Material Handled: Water plus boiler additives

pH: 6.5

Solids %:

Size of particles:

Velocity of particles:

Lubrication (if applicable):

	Material	Life
Part Life Before	Brass	2- 3months
After	ROKIDE C	12 months +

Comments :

CASE HISTORY #207

Industry : Paper

Application : Fan Pump

Equipment Manufacturer: Goulds

Model: 14L

Part(s) Coated: Pump Sleeves

ROKIDE Coating Type and Specification: ROKIDE C

Location: #7 P.M. Fig. 3450 14X16-19-3/8,
Ser. No. 207B976

Service: Pumping Paper Stock to Headbox

Chemical Environment :

Temperature :

RPM: 1150

GPM: 9000

Head: 135

Material Handled: Stock

pH:

Solids %:.25-.75

Size of particles:

Velocity of particles:

Lubrication (if applicable): Water

	Material	Life
Part Life Before	Stainless Steel	
After	ROKIDE C on S.S	18 months *

Comments : *Operating very satisfactorily for the past 1 1/2 years; mill reports "considerable" increase in packing life. This is excellent "insurance" against unscheduled service to the Fan Pump, whose failure means "down time" of the paper machine.



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CASE HISTORY #211

Industry: Paper

Application: Stock preparation

Equipment Manufacturer: Sprout, Waldron

Model: 20" Disc Refiner

Part(s) Coated: Refiner Sleeve

ROKIDE Coating Type and Specification: ROKIDE C

Location:

Service: Stock Refining

Chemical Environment:

Temperature:

RPM:

GPM:

Head:

Material Handled:

pH:

Solids %:

Size of particles:

Velocity of particles:

Lubrication (if applicable): water

Part Life	Material	Life
Before		
After	ROKIDE C on 304 or 316 S.S.	11 months*

Comments : * New machine; no need to repack in first 11 months.

CASE HISTORY #232

Industry: Clay

Application: Spray Drying Sodium-Silica - Aluminate

Equipment Manufacturer: Nichols Engineering & Research Corp.

Model:

Part(s) Coated: Wear Plates and Hub

ROKIDE Coating Type and Specification: ROKIDE C

Location:

Service:

Chemical Environment:

Temperature: 110F

RPM: 1000

GPM:

Head:

Material Handled: Sodium-Silica-Aluminate

pH: 9.0

Solids % :30

Size of particules: Fine

Velocity of particles:

Lubrication (if applicable):

Part life	Material	Hub	Life	
			lower plate	upper plate
Before	Brass plating	1200hrs	400hrs	400hrs
After	ROKIDE C	3000+ hrs	600+ hrs	2000+ hrs

Comments :

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CASE HISTORY #234

Industry: Clay Industry

Application: Pumping Sand

Equipment Manufacturer: Allen Sherman Hoff

Model: A-10-5

Part(s) Coated: Pump Sleeves

ROKIDE Coating Type and Specification: ROKIDE C

Location:

Service:

Chemical Environment:

Temperature: 150F

RPM: 1425

GPM: 100

Head: 50'

Material Handled: Sand in Silicate Solution

pH: 11

Solids %: 20

Size of particles:

Velocity of particles:

Lubrication (if applicable):

	Material	Life
Part Life Before		10-12 months
After	ROKIDE C	10 months *

Comments : * Examination after 10 months use reveals no sign of wear. Customer purchased two additional sleeves for this style pump based on initial installation .

CASE HISTORY #236

Industry: Food Processing

Application: Pumping Molten Cheese

Equipment Manufacturer: Waukesha Foundry Company

Model: MFC 250 Mark I and III

Part(s) Coated: Splined Sleeves (front)

ROKIDE Coating Type and Specification: ROKIDE C

Location:

Service:

Chemical Environment:

Temperature:

RPM:

GPM:

Head:

Material Handled: Molten Cheese

pH:

Solids %:

Size of particles:

Velocity of particles:

Lubrication (if applicable):

	Material	Life
Part life Before	Stainless Steel	2 weeks
After	ROKIDE C plus S.S	7 weeks +

Comments :



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CASE HISTORY #300

Industry: Material processing

Application: Magnetic Separation Drum

Equipment Manufacturer: Eriez Magnetics

Model:

Part(s) Coated: O.D. of Separator Drum Size 36''Øx36 long

ROKIDE Coating Type and Specification : ROKIDE C

Service:

Chemical Environment: N/A

Temperature: N/A

Electrical Environment: strong magnetic field

Thermal Environment: N/A

Material Handled: Mineral Wool Dust and Blasting Grit (Steel)

pH: N/A

Solids %: 100

Size of particles: 80 + 120 Mesh (Grit)
Dust + Fines – 120

Velocity of particles: 800 F + / Min

Cause of Failure:

Erosion: Grit + Fiber Eroded the Stainless Steel Drum

Impact: Minimal

Thermal Shock: None

Corrosion: None

Life of Part

Before: 3 months

After: 7 months-No Sign of Wear on Coating

Downtime

Before: 8-12 hrs, Per Drum Change

After: N/A

Base material

Before: Stainless Steel

After: Manganese Steel

Coating material

Before: None

After: ROKIDE C

Surface Finish

Before : as machined

After : as sprayed

CASE HISTORY #301

Industry: Industry Machinery

Application: Wire Drawing

Equipment Manufacturer: Watkins & Son

Model 6 Head

Part(s) Coated: Drawing Blocks (2 per head)

ROKIDE Coating Type and Specification: ROKIDE C

Location: Wire Drawing Machine

Service: Average Drawing of .024'' Dia. Wire Drawn down to .007'' Dia.

Chemical Environment: See Below

Temperature: 80-140F

RPM: 550

GPM: N/A

Head: N/A

Material Handled: Stainless 304 and 305

pH: 7

Solids %:N/A

Size of particles: N/A

Velocity of particles: N/A

Lubrication (if applicable): WDO/OM (Apex)

	Material	Life
Part life Before	Cast Iron	Wear in 3 months Replaced in 6 months
After	Cast Iron plus ROKIDE C	24 months still in Operation

Comments :

All of the above statements, recommendations, suggestions and data concerning the subject material are based on laboratory and field results and although we believe the same to be reliable, we expressly do not represent, warrant or guarantee the accuracy, completeness or reliability of same, of the material or the result to be obtained from the use thereof, neither do we warrant that any such use, either alone or in combination with other materials, shall be free of rightful claim of any third party by way of INFRINGEMENT or the like, and Saint-Gobain Ceramic Materials DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, AND OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.