

783

ACR

APPLICATION AREAS

- Bolts
- Screws
- Press Fits
- Pipe Threads
- Pump Sleeves



PRODUCT DATA SHEET

KEY FEATURES AND BENEFITS

- No toxic heavy metals
- Waterproof
- Ultra-fine particles
- Broad service temperature range
- Corrosion resistant
- For extreme pressure - up to 8928 kg/cm² (126,983 psi)
- Usable under most extreme conditions

PACKAGING

250g Brush Top
500g Brush Top
20L

DIRECTIONS

Treat all threaded or press-fit parts before joining to make assembly and disassembly easier. Surfaces should be free of dirt, oil, grease, etc. Apply liberally to mating surfaces.

DESCRIPTION

Chesterton® 783 ACR represents the newest generation of anti-seize compound. A proprietary blend of ultra-fine inorganic solid lubricants, 783 ACR can be used under extremely severe conditions of temperature and pressure to assist in assembly and disassembly of threaded components. Because the particles are ultra-fine, they spread evenly and fill surface profiles to prevent metal to metal contact and insure thorough coverage. Chesterton 783 ACR protects assembled parts against corrosion and presents a barrier to the corrosive effects of moisture, steam, salt water, high temperatures and corrosive chemicals. In a standard corrosion test, ASTM B-117, 783 provides 20 times longer rust protection than conventional anti-seize products. In resistance to water wash off, 783 can be considered virtually waterproof. The result is long term performance even in difficult environments such as marine, chemical plants, or metals refining.

TYPICAL PHYSICAL PROPERTIES

Appearance	Light gray
NLGI Grade (ASTM D 217, DIN 51 518)	2
Texture	Soft paste
Specific Gravity	1.33 kg/l
Average Particle Size	< 11 microns
Extreme Pressure (ASTM D 2596, DIN 51 530)	8928 kg/cm ² (126,983 psi)
Dropping Point (ASTM D 566, ISO 2176)	>288°C (550°F)
Operating Temperature	-34°C to 900°C (-30°F to 1650°F)
Coefficient of Friction "K" Factor (Skidmore-Wilhelm Method)	0.140
Corrosion Resistance (ASTM B 117) 5% NaCl	>1200 hrs @ 100 microns
Copper Corrosion (ASTM D 130, DIN 51 811) 100°C (212°F)	2A, 24 hrs.
Water Washout (ASTM D 1265) 79C (175°F)	<0.13%
Penetration (ASTM D 217, ISO 2137)	270
Weld Point (ASTM 2596, DIN 51 350)	>800 kfg
Load Wear Index (ASTM 2596, DIN 51 350)	168.7

Before using this product, please refer to Safety Data Sheet (SDS).

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Maximum Bolt Service Temperatures*

General Classification	"ASTM" Symbols	"JIS" Symbols	Max. Service Temperature
Mild Steel		G3101-SS41	260°C (500°F)
Carbon Steel	A307-B	G4051-S250	420°C (788°F)
5Cr-1/2Mo	A193-B5	G41407-SNB5	600°C (1112°F)
1Cr-1/5Mo	A193-B7	G41407-SNB7	550°C (1022°F)
Cr-Mo-VA	A193-B16	G41407-SNB16	600°C (1112°F)
18Cr-8Ni	A196-B8	G4303-SUS304	800°C (1472°F)
18Cr-10Ni-Cb	A193-B8C	G4303-SUS347	800°C (1472°F)
18Cr-10Ni-Ti	A193-B8T	G4303-SUS321	800°C (1472°F)
18Cr-12Ni-2Mo	A193-B8M	G4303-SUS316	800°C (1472°F)
15Cr-25Ni-Mo-Ti-V-B	A453-600		540°C (1004°F)

*Use of threaded pastes will not extend service temperature of fasteners/bolts. Consult bolting supplier for proper temperature and tension limits.