

Table of Contents

Compounds Pictorial Index516

HiTemp® Universal Compound (HiTUC)517

AFL No. 2 Electrical Joint Compound518

Alnox Electrical Joint Compound519

Alnox UG Electrical Joint Compound520

AFL Filler Compound521

HiTemp® AFL Filler Compound (AFCHT™)522

Pictorial Index

COMPOUNDS

HiTemp® Universal Compound (HiTUC)
pg. 517



AFL No. 2 Electrical Joint Compound
pg. 518



Alnox Electrical Joint Compound
pg. 519



Alnox UG Electrical Joint Compound
pg. 520



AFL Filler Compound
pg. 521



HiTemp® AFL Filler Compound (AFCHT™)
pg. 522



HiTemp® Universal Compound (HiTUC) for Filler and Pad-to-Pad Connections

AFL's HiTemp Universal Compound (HiTUC) is the recommended inhibitor as a filler for compression fittings, as well as a joint compound for pad-to-pad connections for the increased temperature requirements in today's Utility market.

It has been designed to withstand the increased operating temperatures of high temperature/low sag conductors (ACSS, ACCR, etc.). If kept in a dry place, HiTUC has a three-year shelf life.

Features

Low Electrical Resistance

HiTUC contains extremely hard metallic particles with sharp and irregular shapes of carefully controlled grain size. This forms many metal to metal contact points for low contact resistance.

Wide Temperature Tolerance

HiTUC has a wide temperature range. It is workable at low temperatures -40°C (-40°F) and does not drip at high temperatures. It has a melting point above 250°C (482°F).

Improves Current Flow

During compression, the metallic particles (grit) contained in HiTUC are embedded between the conductor and the inside wall of the accessory, creating an irregular surface. This irregular surface improves conductivity by forming more metal to metal connections. The grit also acts as a wire brush on the aluminum oxide that has formed on the inside of the tubular accessory. This same grit creates a low resistance connection in bolted pads of dead ends, terminals and tee taps.

Moisture Resistant

As the accessory is compressed, HiTUC is forced between the conductor strands, sealing out the harmful effects of harmful contaminants, water and salt.

Fits Standard Caulking Gun

AFL is the only supplier that features a sight gauge along the length of the tube that allows the user to check the remaining amount. For easy filling of compression accessories, HiTUC fits a standard caulking gun.

Ordering Information

CATALOG NUMBER	PACKAGING
HITUC10T	Carton of 10 Tubes, 1 lb. (451 g)—Fits Standard Caulking Gun
HITUC1GAL	1 Gallon Pail, 11 lbs. (5 kg)
HITUC5GAL	5 Gallon Pail, 55 lbs. (25 kg)
HITUC12B	12 bottles per pack, 8 oz each, 6 lbs. (2721.6 g)



Applications

- Filler compound and pad-to-pad connections for compression accessories installed on conductors operating at temperatures up to 250°C (482°F)
- Dead ends, joints, terminals, tee taps and jumper connectors



AFL No. 2 Electrical Joint Compound (No. 2 EJC)

AFL No. 2 Electrical Joint Compound (EJC) is the recommended compound providing efficient and trouble free service on aluminum to aluminum and aluminum to copper connections. If No. 2 EJC is kept in a dry place, it has an infinite shelf life.

Application

Terminal to dead end connections for applications under 93° C (200° F). Flat to flat surfaces such as bus to bus, aluminum to aluminum and aluminum to copper.

Features

Lowest Electrical Resistance on Flat Surfaces

No. 2 EJC has the lowest electrical resistance on flat surfaces because it is a grease type medium that dissolves the oxide on connectors. The nature of the oxide removal is not harmful. Unlike other compounds of its kind, No. 2 EJC creates a light surface etch with no deep, localized attack. It only attacks the oxide.

Weather Resistant

No. 2 EJC adheres to pad surfaces, protecting the connection against the harmful effects of the environment.

Proven Performance

Years of service and laboratory testing have proven that AFL No. 2 EJC provides efficient and trouble free service.

Ordering Information

CATALOG NUMBER	PACKAGING
EJC10T	Carton of 10 - 7.94 oz (225 g) tubes
EJC12CAN	Carton of 12 - 1 lb. (0.45 kg) cans
EJC1GAL	1 Gallon Pail, 10 lbs. (4.5 kg)
EJC5GAL	5 Gallon Pail, 50 lbs. (22.7 kg)

For more information, contact the AFL Technical Support Team at 1.800.866.7385.

Alnox® Electrical Joint Compound

Applications

Pad to pad connections where the operating temperatures are at or below 250 °C (482 °F). Used for aluminum on aluminum, copper on aluminum, and copper on copper. Ex: Dead ends to terminals, terminals to tee taps

Features

Lowest Electrical Resistance

Alnox® contains extremely hard metallic particles with sharp and irregular shapes of carefully controlled grain size. This forms many metal to metal contact points for low resistance connections. If Alnox is kept in a dry place, it has an infinite shelf life.

Weather Resistant

Alnox® adheres to pad surfaces, protecting the connection against the harmful effects of the environment.

Wide Temperature Tolerance

Alnox® has a wide temperature tolerance. It is workable at low temperatures, -18 °C (0 °F), and does not drip at high temperatures. It has a melting point above 288 °C (550 °F).



Ordering Information

CATALOG NUMBER	PACKAGING
ALNOX10T	Carton of 10 - 8.82 oz (250 g) tubes
ALNOX12CAN	Carton of 12 - 1 lb. (0.45 kg) cans
ALNOX1GAL	1 Gallon Pail, 10 lbs. (4.5 kg)
ALNOX5GAL	5 Gallon Pail, 50 lbs. (22.7 kg)

For more information, contact the AFL Technical Support Team at 1.800.866.7385.

Alnox UG Electrical Joint Compound

Alnox UG is recommended for use in underground applications. It is recommended for Aluminum to Aluminum and Aluminum to Copper connections where compatibility to rubber products is required. It has the same characteristics as Alnox, but with less electrical efficiency. Stored in a dry environment, Alnox UG has an infinite shelf life.

Features

Low Electrical Resistance

Alnox UG contains extremely hard metallic particles with sharp, irregular shapes of carefully controlled grain size. This forms many metal to metal contact points for low resistance connections.

Weather Resistant

Alnox UG adheres to pad surfaces and parallel groove clamps, protecting the connection against the environment.

Wide Temperature Tolerance

It is workable at low temperatures, -18°C (0°F) and will not drip below 190°C (375°F).

Applications

- Flat to flat connections below 190°C (375°F) such as bus to bus, dead end terminals, aluminum to aluminum and aluminum to copper
- Parallel groove clamps
- Underground applications

Ordering Information

CATALOG NUMBER	PACKAGING
ALNOXUG10T	8.82 oz tube (250 g), carton of 10 tubes
ALNOXUG12CAN	One pound can (.45 kg), carton of 12 cans
ALNOXUG1GAL	One gallon pail, 10 Lbs (4.5 kg)
ALNOXUG5GAL	Five gallon pail, 50 Lbs (22.7 kg)



AFL Filler Compound

AFL Filler Compound (AFC) improves the mechanical holding strength and conductivity of compression fittings. Stored in a dry environment, AFC has an infinite shelf life.

Applications

Filler compound for compression accessories operating at temperatures up to 180°C (355°F). Example: dead ends, compression joints, terminals and jumper connectors.

Features

Wide Temperature Tolerance

AFC is stiff but workable at low temperatures. To improve the workability, AFC can be diluted with 5% kerosene (by weight).

Improves Holding Strength and Conductivity

AFC contains hard, metallic particles (grit). During compression, the grit is embedded between the conductor and the accessory, creating an irregular surface which provides two benefits: (1) increases the holding strength when tension is applied and (2) improves conductivity by breaking the oxide layer on bare metal to metal connections.

Weather Resistant

AFC is forced between the conductor strands during compression, filling voids and sealing out the harmful effects of air and moisture.

Fits Standard Caulking Gun

For easy filling of compression accessories, AFC is available in a tube that fits a standard caulking gun.

Visible Fill Line

AFL is the only supplier that features a visible fill line along the length of the cartridge which allows the user to visually check the fullness of the tube.



Ordering Information

AFL NO.	PACKAGING
AFC10T	Carton of 10, 1 lb. (451 g) Tubes - Fits Standard Caulking Gun
AFC1GAL	1 Gallon Pail, 11 lbs. (5 kg)
AFC5GAL	5 Gallon Pail, 55 lbs. (25 kg)

For more information, contact the AFL Technical Support Team at 1.800.866.7385.

HiTemp® AFL Filler Compound (AFCHT™)

HiTemp AFL Filler Compound (AFCHT) is the recommended filler for compression fittings due to its ability to improve the mechanical holding strength and conductivity of the connection. It has been designed to withstand the increased temperatures of high temperature/low sag conductors (ACSS and ACCR). Kept in a dry place, AFCHT has an infinite shelf life.

Application

Filler Compound for compression accessories installed on conductors operating at temperatures up to 250°C (482°F). Compression accessories include dead ends, joints, terminals and jumper connectors.

Features

Wide Temperature Tolerance

AFCHT has a wide temperature range. It is workable at low temperatures and does not drip at high temperatures. It has a melting point above 250°C (482°F).

Improves Holding Strength and Conductivity

AFCHT contains hard metallic and non-metallic particles, otherwise known as 'grit'. During compression, the compound grit is embedded between the conductor and the accessory, creating an irregular surface. This irregular surface has two features: (1) increases the holding strength when tension is applied and (2) improves conductivity by forming a bare metal to metal connection.

Moisture Resistant

As the accessory is compressed, AFCHT is forced between the conductor strands, sealing out the harmful effects of water.

Fits Standard Caulking Gun

For easy filling of compression accessories, AFCHT is available in a tube that fits a standard caulking gun.



Ordering Information

AFL NO.	PACKAGING
AFCHT10T	Carton of 10, 1 lb. (451 g) Tubes - Fits Standard Caulking Gun
AFCHT1GAL	1 Gallon Pail, 11 lbs. (5 kg)
AFCHT5GAL	5 Gallon Pail, 55 lbs. (25 kg)

For more information, contact the AFL Technical Support Team at 1.800.866.7385.