

AN INNOVATIVE MATERIAL FOR EFFICIENT RESISTANCE WELDING

ELKALOY® 20 ELECTRODES

PATENT PENDING



CMW® ELKALOY® 20 CAP ELECTRODES ARE *NEW AND REVOLUTIONARY* Dispersion-Strengthened Copper electrodes. They are specifically designed for exceptional resistance to deformation when welding all coated steels.

CMW® Elkaloy® 20* electrodes are a great solution for the high volume resistance spot welding industry. These Class 20 electrodes have extended cap life due to a reduction in electrode deformation without sticking when welding coated and galvanized steels. Testing has shown up to 6 times the electrode life when compared to the competition.

*Patent pending.

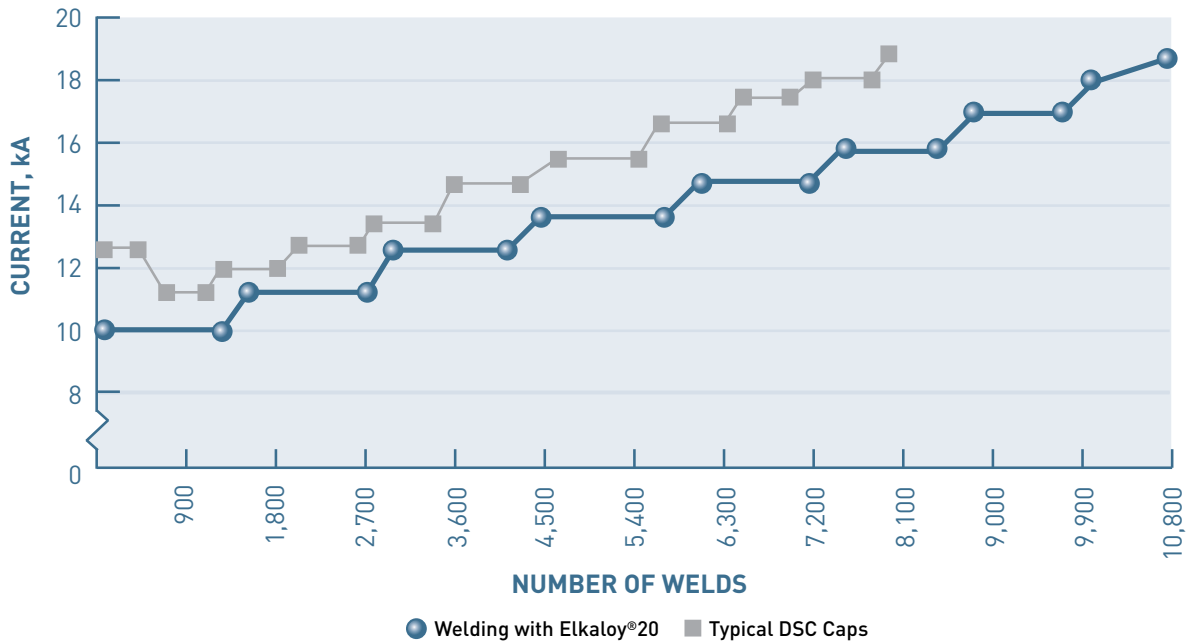


BENEFITS AND RESULTS

- » **NO STICKING:** CMW® Elkaloy® 20 is specially designed to begin welding from the very first weld.
- » **INCREASE PRODUCTIVITY:** Cap life extended up to 6 times. Significantly longer life provides more quality welds, either with or without dressing, and with or without a stepper. Significantly longer life also provides far fewer cap change requirements, which increases your line uptime and human capital utilization.
- » **QUALITY WELDS:** Elkaloy® 20 electrode nuggets meet or exceed industry standards from the first weld through the life of the cap.
- » **USES LESS ELECTRICAL POWER:** Achieves superior welds at much lower power levels.
- » **COMPETITIVELY PRICED:** Increased cap life provides significantly reduced total cost per weld.

RESISTANCE WELDING

**COMPARISON OF WELDING WITH CMW® ELKALOY® 20
AND TYPICAL DSC CAPS ON DOUBLE SIDED 0.039" GALVANIZED STEEL**



Comparison performed to maintain 0.200" weld nugget with out dressing of A nose 0.250 weld flat cap electrode.

COMPARISON OF ELKALOY® 20 WITH COMPETITIVE DSC ON A COLD ROLLED STEEL APPLICATION:

APPLICATION: 0.135" to 0.060" Cold Rolled Steel | MINIMUM WELD NUGGET: 0.120" | CAP CONFIGURATION: A nose with 0.250" diameter weld flat
STEPPER: none | DRESSING: None on line. Dressing done off line between Line 1 and Line 2 and Line 3.

	CURRENT DSC CAP	ELKALOY® 20' CAP TEST	ELKALOY® 20' CAP PRODUCTION - 50 RUNS
# OF LINE 1 WELDS	12-16,000	70,000	60,000
# OF LINE 2 WELDS	6,000	35,000	35,000
# OF LINE 3 WELDS	4-6,000	15,000	20,000
TOTAL WELDS	22-28,000	120,000	115,000

NOTE: Test was run to determine feasibility under controlled conditions.
Production confirmation consisted of 50 consecutive runs using data gathered during test run.

*Patent pending.

About the Company » With its roots to 1916 as the Mallory Metallurgical Company, CMW operates in three primary business units dedicated to silver-based electrical contacts, tungsten-based high density metals and copper-based resistance welding consumables. Numerous organizations have repeatedly recognized our company and its associates for safety, quality and continuous improvement programs. With an employment base including over 1,000 years experience in chemistry, metallurgy, manufacturing engineering and other industrial technologies, CMW operates a range of capabilities across the spectrum of manufacturing in its 6+ acre complex in the center of the United States.

We stand ready to assist you!

CMW is ISO 9001:2000 certified.

For more information about CMW® Elkaloy® 20 electrodes, please call our office or visit our website at www.cmwinc.com.

RESISTANCE WELDING