

PRECAUTIONS THAT WILL HELP REDUCE CORROSION

Corrosion is the deterioration of metal by chemical or electro-chemical reaction with its environment. The presence of moisture and oxygen is usually essential to corrosion and an acid solution will accelerate the action.

All metals have a tendency to dissolve in water, potassium heads the list for it dissolves explosively in water, while gold is almost insoluble.

Electrolysis is caused by placing two dissimilar metals in an electrically conducting solution, this must be scrupulously avoided where ever economically possible. This can be done by choosing metals grouped as closely as possible in the following Galvanic Series. As an example severe corrosion can be expected in a steel pipe nipple when it is screwed into a copper or brass pipe fitting.

GALVANIC SERIES

Magnesium	Corroded End
Zinc	
Aluminum	
Steel or Iron	
Cast Iron	
Lead-tin solder	
Lead	
Tin	
Brass	
Copper	
Bronze	
Monel	
Silver	
Platinum	
Gold	Protected End

1. Select metals close together in the above Galvanic Series.
 2. If this is impossible, insulate different metals.
- C. E. (Scotty) Stewart

KNOW YOUR FUSE SIZES

Motor Horsepower	Size of fuse for 220 volt circuit	Size of fuse for 440 volt circuit
5	25 amperes	15 amperes
7.5	40 "	20 "
10	45 "	25 "
15	70 "	40 "
20	90 "	50 "
25	100 "	50 "
30	120 "	60 "
40	160 "	80 "
50	200 "	100 "
60	240 "	120 "
75	300 "	150 "
100	400 "	200 "

When a golf course superintendent changes positions one of the many things he has to check in his new assignment is the fuse size in the pumping plant motor control. A fuse which is too light to carry the load gives constant trouble by blowing; whereas a fuse which is too heavy can result in a burned-out motor winding.

The above table compiled from the current issue of the National Electrical Code gives the correct sizes of fuses to use.

C. E. (Scotty) Stewart

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