This study aims to determine the percentage of large or small length of defects in the welding material of SS400 steel material using the Non Destructive Test Penetrate Testing (PT) and Ultrasonic Testing (UT) by using variations in the current strength of 70A, 100A, and 130A. The results of the study used the Penetrant Testing (PT) method on the 70A current variation, the average value of the defect length was 0.483%, then at the current 100A the average percentage of the defect length was 0.0779%, and at the current 130A the average value of the percentage defect length 0.1621%, on Ultrasonic Testing (UT) at 70A strong current - average percentage of defect length 0.023%, at 100A current - average percentage of defective length 0.022%, and at current variation 130A value the average percentage of defect length is 0.0614%. This is caused if the current used is too low then the penetration that occurs is too small, but if the current used is too high it can also cause a large melting of the parent metal. So the conclusion of this research is that the least defective current is at a current strength of 100A and includes a good current strength for welding using SS400 steel material.