Table2: Resistance properties for strong acid and alkaline

Source：Corrosion Resistance Tables Second Edition

Material of metal	30% Sodium chloride	20% Hydrochloric acid	10% Nitric acid	15% Sodium hydroxide	10% Sulfuric acid
SUS316	G (Good)	U (Unsatisfactory)	E (Exellence)	E (Exellence)	U (Unsatisfactory)
SUS316	＜20Mils Penetration/Year at less than 100℃	>50Mils Penetration/Year at 25℃	＜2Mils Penetration/Year at less than 100℃	＜2Mils Penetration/Year at less than 65℃	>50Mils Penetration/Year at 25℃
Titanium	E (Exellence)	U (Unsatisfactory)	E (Exellence)	E (Exellence)	U (Unsatisfactory)
Titanium	＜2Mils Penetration/Year at less than 100℃	>50Mils Penetration/Year at 25℃	＜2Mils Penetration/Year at less than 100℃	＜2Mils Penetration/Year at less than 100℃	>50Mils Penetration/Year at 25℃
Platinum	E (Exellence)	E (Exellence)	E (Exellence)	E (Exellence)	E (Exellence)
Platinum	Not described. Platinum is not corroded by these chemical solutions.				

* 1Mil=0.0254mm

Therefore、SUS316 and Titanium are not used for the electrode material for conductivity measurement of such chemicals.