RESISTANCE COMPARISON CHART / TABELLA DI COMPARAZIONE RESISTENZE

KEY:

● Compatible - No Corrosion / Compatibile - Nessun Intacco
◑ Acceptable - Mild Corrosion / Accettabile - Intacco Moderato
○ Not Compatible - High corrosion / Non Compatibile - Intacco elevato
n.a. Information not available / Dato non disponibile

		COMPARED METALS METALLI A PARAGONE			NEW GALVANIC COATINGS RIVESTIMENTI NUOVA GALVANICA					
Contact element	**Elemento di contatto**	**AISI 304**	**AISI 316**	**BRASS**	**NI**	**NI-CR**	**SN-CO**	**SLT**	**CLB**	**DNG**
Acetylene	Acetilene	●	●	◑	●	●	◑	●	◑	◑
Acetone	Acetone	●	●	●	●	●	◑	●	●	●
Fatty Acids	Acidi Grassi	●	●	◑	●	●	◑	●	◑	◑
Acetic Acid	Acido Acetico	◑	●	◑	●	●	◑	●	◑	◑
Carbonic Acid	Acido Carbonico	●	◑	n.a.	●	●	◑	●	◑	n.a.
Citric Acid	Acido Citrico	●	●	◑	●	●	◑	●	◑	◑
Hydrochloric Acid (20%)	Acido Cloridrico (20%)	○	○	○	○	○	○	●	◑	○
Hydrochloric Acid (37% Hot)	Acido Cloridrico (37% Caldo)	○	○	○	○	○	○	●	◑	○
Hydrochloric Acid (37% Cold)	Acido Cloridrico (37% Freddo)	○	○	○	○	○	○	●	◑	○
Hydrofluoric Acid (20%)	Acido Fluoridrico (20%)	○	○	○	○	○	○	○	◑	○
Hydrofluoric Acid (75%)	Acido Fluoridrico (75%)	○	○	○	○	○	○	○	◑	○
Hydrofluoric Acid (100% Cold)	Acido Fluoridrico (100% Freddo)	○	○	○	○	○	○	○	◑	○
Hydrofluoric acid (100% Hot)	Acido Fluoridrico (100% Caldo)	○	○	○	○	○	○	○	◑	○
Formic Acid	Acido Formico	●	◑	◑	◑	◑	◑	●	◑	◑
Phosphoric Acid (40%)	Acido Fosforico (40%)	◑	●	○	◑	◑	○	●	◑	○
Phosphoric Acid (40-100%)	Acido Fosforico (40-100%)	◑	◑	○	◑	◑	○	●	◑	○
Phosphoric Acid (Raw)	Acido Fosforico (Crudo)	○	◑	○	◑	◑	○	●	◑	○
Nitric Acid (5-10%)	Acido Nitrico (5-10%)	●	●	○	◑	◑	○	●	◑	○
Nitric Acid (20%)	Acido Nitrico (20%)	●	●	○	◑	◑	○	●	◑	○
Nitric Acid (50%)	Acido Nitrico (50%)	●	●	○	○	○	○	●	◑	○
Nitric Acid (Concentrated)	Acido Nitrico (Concentrato)	○	◑	○	○	○	○	●	◑	○
Nitrous Acid	Acido Nitroso	●	●	○	◑	◑	○	●	◑	○
Sulphuric Acid (10%)	Acido Solforico (10%)	◑	◑	○	◑	◑	○	●	◑	○
Sulphuric Acid (10-75%)	Acido Solforico (10-75%)	◑	◑	○	◑	◑	○	●	◑	○
Sulphuric Acid (75-100%)	Acido Solforico (75-100%)	◑	◑	○	◑	◑	○	●	◑	○
Sulphurous Acid	Acido Solforoso	◑	◑	◑	◑	◑	◑	●	◑	◑
Ammonia Solution	Acqua Ammoniacale	●	●	○	●	●	◑	●	◑	○
Sea water	Acqua di Mare	●	●	◑	●	●	○	●	◑	◑
Pool water	Acqua di Piscina	●	●	n.a.	●	◑	○	●	●	n.a.
Distilled, demineralised, de-ionised water	Acqua distillata, demineralizzata, de-ionizzata	●	●	●	●	◑	◑	●	●	●
Emulsified water (rainwater)	Acqua emulsionata (acqua bianca)	●	●	●	●	●	◑	●	●	●
Soapy Water - Soap Solutions	Acqua Saponata - Soluzioni di Sapone	●	●	●	●	●	●	●	n.a.	●
Acidic Waters	Acque Acide	●	●	○	●	●	◑	●	◑	○
Rainwater	Acque Bianche	●	●	n.a.	●	●	●	●	n.a.	n.a.
Ethyl Alcohol	Alcol Etilico	●	●	◑	●	●	●	●	●	◑
Methyl Alcohol	Alcol Metilico	●	●	◑	●	●	◑	●	●	◑
Propyl Alcohol	Alcol Propilico	●	●	●	●	●	◑	●	●	●
Amines	Ammine	●	●	◑	●	●	◑	●	◑	◑
Ammonia (10%)	Ammoniaca (10%)	●	●	○	●	●	◑	●	◑	○

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Ammonia, Anhydrous	Ammoniaca, Anidra	◑	●	○	●	●	◑	●	●	○
Aniline	Anilina	●	●	○	●	●	◑	●	◑	○
Antifreeze	Antigelo	●	●	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Benzene	Benzene	●	●	◑	◑	◑	◑	●	◑	◑
Petrol	Benzina	●	●	●	◑	◑	◑	●	◑	●
Benzol, Benzyl Alcohol	Benzolo, Alcool Benzilico	●	●	◑	◑	◑	◑	●	◑	◑
Potassium Bicarbonate	Bicarbonato di Potassio	●	◑	◑	◑	◑	◑	◑	◑	◑
Sodium Bicarbonate	Bicarbonato di Sodio	●	●	◑	◑	◑	◑	●	◑	◑
Biodiesel (BD2 - B2)	Biodiesel (BD2 - B2)	●	●	●	◑	◑	◑	●	◑	●
Biodiesel (BD100 - B100)	Biodiesel (BD100 - B100)	●	●	●	◑	◑	◑	●	◑	●
Carbon Dioxide	Biossido di Carbonio	●	●	●	●	●	◑	●	◑	●
Sulphur Dioxide	Biossido di Zolfo	●	●	○	●	●	◑	●	◑	○
Butane	Butano	●	●	●	●	●	●	●	●	●
Bleach	Candeggina	●	●	n.a.	●	●	◑	●	◑	
Avio Fuel (JP3, JP4, JP5)	Carburante Avio (JP3, JP4, JP5)	●	●	●	●	●	●	●	◑	●
Kerosene	Cherosene	●	●	●	●	●	●	●	◑	●
Ketones	Chetoni	●	●	●	●	●	●	●	◑	●
Chlorine (Anhydrous Liquid)	Cloro (Liquido Anidro)	○	○	○	○	○	○	◑	◑	○
Detergents	Detergenti	●	●	◑	●	●	●	●	●	◑
Herbicides	Diserbanti	●	●	n.a.	●	●	●	●	●	n.a.
Hexane	Esano	●	●	●	●	●	◑	●	●	●
Ethane	Etano	◑	●	◑	◑	●	◑	●	●	◑
Freon 11	Freon 11	●	●	◑	●	●	◑	●	●	◑
Freon 113	Freon 113	●	●	◑	●	●	◑	●	●	◑
Freon 12 (Aqueous Solution)	Freon 12 (Soluzione Acquosa)	●	○	●	◑	◑	○	●	◑	●
Freon 22	Freon 22	●	●	●	●	●	●	●	●	●
T.F. Freon	Freon T.F.	●	●	◑	●	●	◑	●	●	◑
Fluorine	Fluoro	○	○	n.a.	○	○	○	○	○	n.a.
Formaldehyde	Formaldeide	●	●	●	●	●	●	●	●	●
Gas oil (Diesel)	Gasolio (Diesel)	●	●	●	◑	◑	◑	●	◑	●
Glycerine	Glicerina	●	●	◑	●	●	◑	●	◑	◑
Glycol, Ethylene Glycol	Glicole, Glicole Etilenico	●	●	◑	●	●	◑	●	●	◑
Propylene Glycol	Glicole Propilenico	◑	●	◑	◑	●	◑	●	◑	◑
Aromatic Hydrocarbons	Idrocarburi Aromatici	●	●	●	◑	◑	◑	●	◑	●
Hydrogen Gas	Idrogeno Gas	●	●	n.a.	●	●	●	●	●	n.a.
Hydrogen Sulphide (Dry)	Idrogeno Solforato (Secco)	◑	●	◑	◑	◑	○	●	◑	◑
Hydrogen Sulphide (Aqueous Solution)	Idrogeno Solforato (Soluzione Acquosa)	●	●	○	◑	◑	○	●	◑	○
Potassium Hydroxide	Idrossido di Potassio	◑	◑	○	◑	◑	○	●	◑	○
Sodium Hydroxide (Caustic Soda, 20%)	Idrossido di Sodio (Soda Caustica, 20%)	●	●	●	●	●	◑	●	◑	●
Sodium Hydroxide (Caustic Soda, 50%)	Idrossido di Sodio (Soda Caustica, 50%)	●	◑	●	●	●	◑	●	◑	●
Sodium Hydroxide (Caustic Soda, 80%)	Idrossido di Sodio (Soda Caustica, 80%)	●	◑	◑	◑	◑	○	●	○	◑
Ink	Inchiostro	●	●	n.a.	●	●	●	●	●	n.a.
Rust inhibitors	Inibitori della ruggine	●	●	n.a.	●	●	●	●	●	n.a.
Sodium Hypochlorite (20%)	Ipoclorito di Sodio (20%)	◑	◑	○	○	○	○	●	◑	○
Sodium Hypochlorite	Ipoclorito di Sodio	○	●	○	○	○	○	●	◑	○
Lacquers, Paints	Lacche, Vernici	●	●	●	●	●	●	●	●	●

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Tannin base Liquids, for Tanning	Liquidi base Tannino, per Concia	●	●	n.a.	●	●	○	●	◑	n.a.
Sugar Liquids	Liquidi Zuccherini	●	●	●	●	●	●	●	●	●
Lubricants	Lubrificanti	●	●	◑	●	●	◑	●	◑	◑
Methane	Metano	◑	●	◑	◑	◑	◑	●	●	◑
Naphtha	Nafta	●	●	◑	◑	◑	◑	●	◑	◑
Naphthalene	Naftalene (Naftalina)	●	◑	◑	◑	◑	◑	●	◑	◑
Fuel Oils	Oli Combustibili	●	●	◑	◑	◑	◑	●	◑	◑
Hydraulic Oils (Petroleum base)	Oli Idraulici (base Petrolio)	●	●	◑	●	●	◑	●	◑	◑
Hydraulic Oils (Synthetic base)	Oli Idraulici (base Sintetica)	●	●	◑	●	●	◑	●	◑	◑
Oleum (Fuming Sulphuric Acid 25%)	Oleum (Acido Solforico Fumante 25%)	◑	◑	◑	◑	◑	○	●	◑	◑
Rapeseed oil	Olio di Colza	●	●	◑	●	●	◑	●	◑	◑
Cutting oil (whole)	Olio da taglio (integrale)	●	●	●	●	●	◑	●	●	●
Cutting oil (emulsified)	Olio da taglio (emulsionato)	●	●	●	●	●	◑	●	●	●
Diathermic oil (for transformers)	Olio Diatermico (per trasformatori)	●	●	◑	●	●	◑	●	◑	◑
Mineral Oil	Olio Minerale	●	●	◑	●	●	◑	●	◑	◑
Olive Oil	Olio di Oliva	●	●	◑	●	●	◑	●	◑	◑
Palm oil	Olio di Palma	●	●	◑	●	●	◑	●	n.a.	◑
Silicone Oils	Oli Siliconici	●	●	n.a.	●	●		●	n.a.	n.a.
Oil for Transformers	Olio per Trasformatori	●	●	◑	●	●	◑	●	◑	◑
Paraffin	Paraffina	●	●	●	●	●	◑	●	●	●
Pentane	Pentano	◑	◑	●	◑	◑	◑	●	●	●
Potassium Permanganate	Permanganato di Potassio	●	◑	◑	◑	◑	◑	●	◑	◑
Hydrogen Peroxide (Hydrogen Peroxide, 10%)	Perossido di Idrogeno (Acqua Ossigenata, 10%)	◑	◑	◑	◑	◑	◑	●	◑	◑
Hydrogen Peroxide (Hydrogen Peroxide, 30%)	Perossido di Idrogeno (Acqua Ossigenata, 30%)	◑	◑	○	◑	◑	◑	●	◑	○
Hydrogen Peroxide (Hydrogen Peroxide, 50%)	Perossido di Idrogeno (Acqua Ossigenata, 50%)	◑	◑	○	◑	◑	◑	●	◑	○
Sodium Peroxide	Perossido di Sodio	●	●	○	●	●	◑	●	◑	○
Sour crude oil (S>1%)	Petrolio greggio sour (S>1%)	●	●	◑	◑	◑	○	●	n.a.	◑
Sweet crude oil (S<1%)	Petrolio greggio sweet (S<1%)	●	●	◑	◑	◑	○	●	n.a.	◑
Potash	Potassa	●	●	○	●	●	○	●	n.a.	○
Propane - LPG	Propano - GPL	●	●	●	●	●	●	●	●	●
Brine	Salamoia	◑	●	◑	●	●	◑	●	◑	◑
Caustic Soda (Sodium Hydroxide, 20%)	Soda Caustica (Idrossido di Sodio, 20%)	●	●	●	●	●	◑	●	◑	●
Caustic Soda (Sodium Hydroxide, 50%)	Soda Caustica (Idrossido di Sodio, 50%)	●	◑	●	●	●	◑	●	◑	●
Caustic Soda (Sodium Hydroxide, 80%)	Soda Caustica (Idrossido di Sodio, 80%)	●	◑	◑	◑	◑	○	●	◑	◑
Solvents for Lacquers, Coatings	Solventi per Lacche, Vernici	●	●	●	●	●	●	●	●	●
Dyes	Tinture	●	●	◑	●	●	●	●	○	◑
Turpentine	Trementina	●	●	◑	●	●	◑	●	●	◑
Urine, Urea	Urina, Urea	●	●	◑	●	●	◑	●	n.a.	◑
Paints	Vernici	●	●	●	●	●	●	●	●	●