

Resistance of high-phos coatings - Ni-P(12) - in different media

Medium	Concentration weight %	Temperature ℃	Resistance
Acetone	100	54	A-B
Aluminium chloride	Saturated	RT	D
Aluminium sulphate	Saturated	RT	B
Formic acid	88	RT	B
Ammonium chloride	Saturated	RT	В
Ammonium hydroxyde	5-28	RT	С
Ammonium nitrate	Saturated	RT	B
Amyl alcohol	100	RT	Ā
Amyl chloride	100	RT	А
Malic acid	Saturated	RT	А
Ethyl alcohol	100	RT	А
Ethylene	100	RT	А
Ethylene dichloride	100	Boiling point	А
Ethylene glycol	100	RT	А
Barium chloride	2-40	RT	А
Barium hydroxide	2-50	60	А
Benzene	100	RT	А
Benzoic acid	Saturated	RT	D
Benzol	100	RT	А
Beer		10	А
Lead acetate	Saturated	RT	В
Lead nitrate	Saturated	RT	А
Borax	Saturated	RT	В
Boron fluoric acid	25	RT	D
Boron acid	Saturated	RT	С
Bromine	100	RT	В
Butadiene	100	25	А
Butyl alcohol	100	RT	А
Chlorine	100	RT	В
Chlorine gas, dry	100	RT	А
Chloroform	100	RT	А
Chloroform	100	Boiling point	В
Chromic acid	2-100	RT	D
Steam		425	A
Steam condensate	-	80	A
Dichloroethane	100	RI	A
Dimethylbenzene	100	RI	A
Iron chloride	Saturated	RI	D
Iron nitrate	Saturated	RI	D
Iron sulphate	Saturated	RI	D
Groundnut oil	100	RI	A
	100	RI	A
Vinegar Ethernalis	100	KI DT	В
	U-/U	KI DT	C-B
Faily aclos	100	KI DT	В
Aviation tuel	100	KI DT	A
	2-100		U D
Formaldenyde	র।	КІ	В



	RT	А
Concentration weight %	Temperature ℃	Resistance
100	RT	А
Saturated	BT	A
100	RT	A
-	20-40	B
Saturated	RT	Ā
100	BT	A
	Boiling point	A
Saturated	RT	A
Saturated	BT	A
Saturated	RT	В
2-50	BT	Ā
Saturated	RT	A
Saturated	60	A
Saturated	RT	A
100	RT	А
100	RT	В
100	Boiling point	А
Saturated	RT	А
Saturated	RT	D
Saturated	RT	D
2-30	RT	С
100	RT	А
Saturated	RT	А
2-50	RT	А
2-100	RT	А
	RT	А
	100	В
100	RT	А
100	RT	А
100	RT	С
	RT	А
10-50	RT	С
85	RT	А
100	RT	А
Saturated	RT	В
Saturated	RT	В
Saturated	RT	А
5	RT	В
2-73	RT	А
10	RT	А
Saturated	RT	А
Saturated	RT	А
Saturated	RT	А
	Concentration weight % 100 Saturated 100 - Saturated 100 Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated Saturated	RTConcentration weight %Temperature °C100RTSaturatedRT100RT-20-40SaturatedRT100RT-20-40SaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRT100RTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRT100RT100RT100RT100RT100RT100RT100RTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTSaturatedRTS



Medium	Concentration weight %	Temperature ℃	Resistance
Natural resins	100	50	A
Nickel chloride	Saturated	RT	C
Nickel sulphate	Saturated	BT	C
Fuming sulphuric acid	20	BT	D
Oleic acid	100	BT	Δ
Orange juice	100	BT	Δ
Ovalic acid	Saturated	BT	Δ
Palm oil	100	BT	Δ
Paraffin	100	BT	Δ
Totrachloroothylopo	100	DT	^
Phonol	100		A A
Phoenbaria asid	0 100	90 DT	A 100% C
Phospholic aciu	0-100	10 000/ D	<0-100% C
Diaria agid	100	<10-00% D	
	100	RI 000	D
Polymers	100	20200	A
Propane		KI DT	A
Mercury chloride	Saturated	RI	D
Crude oil	100	RI	A
Nitric acid	2-100	RI	D
Hydrochloric acid	10	RI	D
Hydrochloric acid	20	RT	D
Hydrochloric acid	30	RT	D
Hydrochloric acid	conc.	RT	D
Sulphuric acid	10	RT	D
Sulphuric acid	20	RT	С
Sulphuric acid	30-40	RT	С
Sulphuric acid	50-70	RT	С
Sulphuric acid	80	RT	D
Sulphuric acid	90	RT	С
Sulphuric acid	100	RT	D
Hydrogen sulphide	100	RT	Α
Sulphurous acid	2-60	RT	D
Seawater		RT	Α
Suds		95	Α
Stearic acid	Saturated	RT	Α
Turpentine	100	RT	Α
Carbon tetrachloride	100	Boiling point	Α
Toluol	100	95	А
Trichloroethylene	100	95	А
Vinyl chloride	100	35	А
Water, distilled	-	RT	А
Water, deionised	-	80	А
Wine	100	RT	А
Whisky		RT	А
Zinc chloride	Saturated	RT	В
Zink nitrate	Saturated	RT	В
Citric acid	5	RT	А



Resistances of high-phos-coats – Ni-P (12)

Classification

- A = Very satisfactory results, abrasion rate by corrosion always less than $2.5 \,\mu$ m/a
- B = Useful results, abrasion rate by corrosion less than 12.5 μ m/a
- C = Use to be decided on a case basis, abrasion rate by corrosion less than 25 μ m/a
- $D = Use not reasonable for longer times, abrasion rate by corrosion greater than 25 <math>\mu$ m/a