

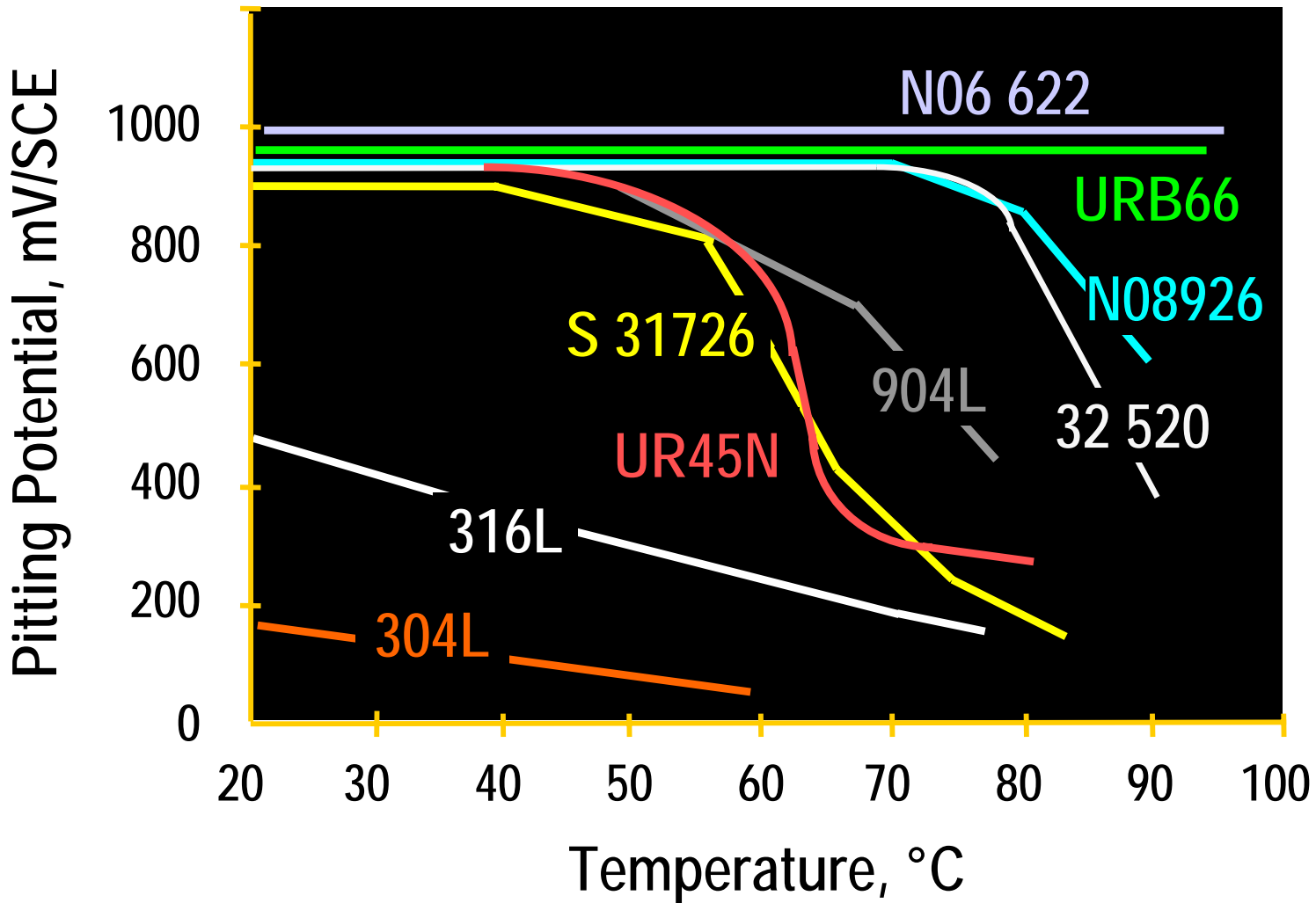
COMPOSITION OF STAINLESS STEELS TESTED

UNS		Chemical Analysis (% weight)						PRENW
		Cr	Ni	Mo	Cu	W	N	(1)
316L		17,2		2,6			0,05	25
31803	SAF2205	22	5,5	3,2			0,17	34
32520	UR52N+	25	6,3	3,6	1,5		0,25	41
32750	SAF2507	24,9	6,9	3,8	0,7		0,28	41
31254	254SMO	19,9	17,8	6,0	0,4		0,20	43
32654	654SMO	24,5	21,8	7,3	0,9	0,5	0,48	56
08028	SAN 28	26,7	30,3	3,4			0,07	38
08932	URB66	24,5	22	4,7	1,5	2	0,40	54
08926	URB26	20	24,7	6,3	0,8		0,19	43

PRENW : Cr + 3.3 Mo +1.6 W + 16 N

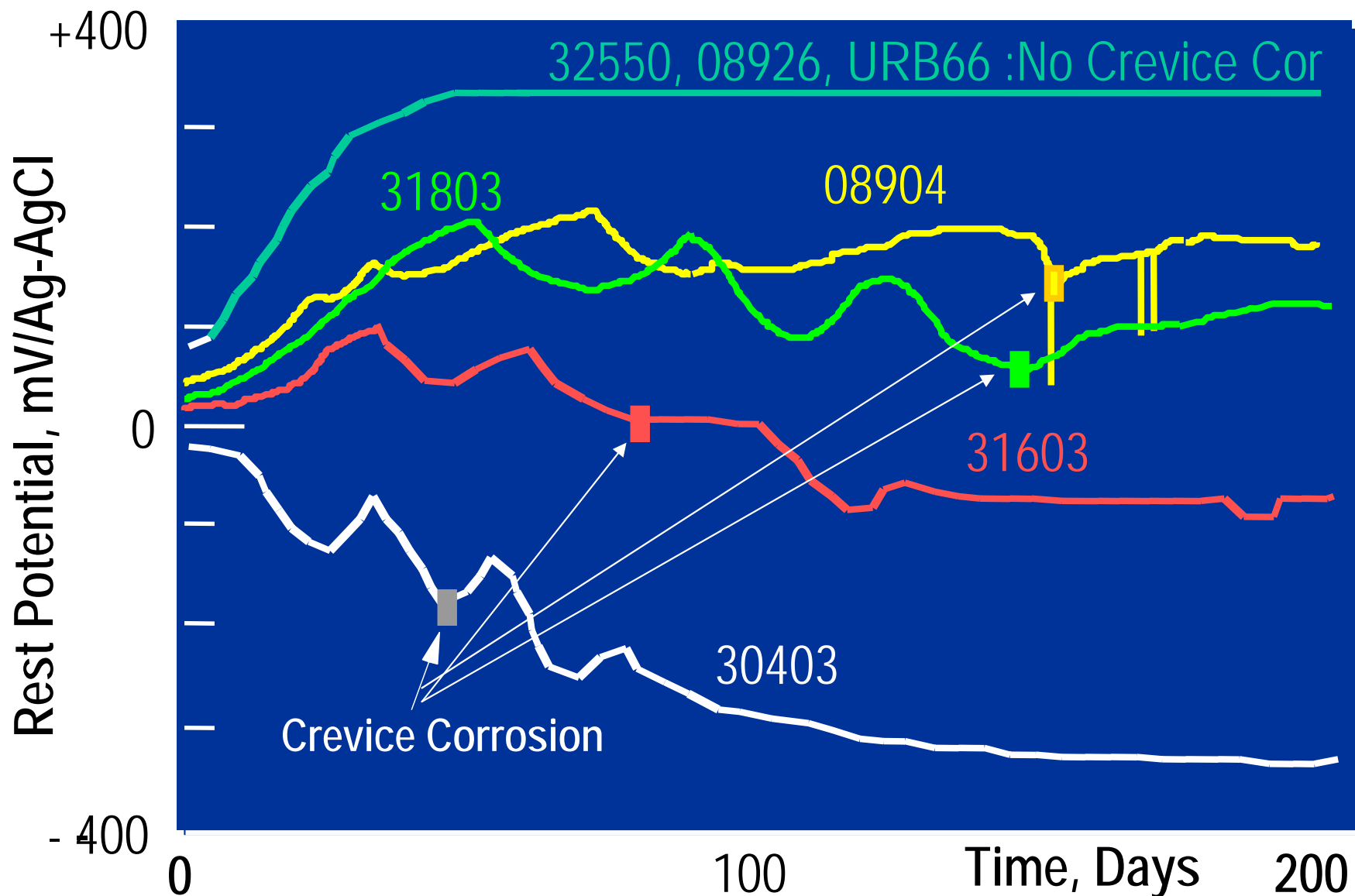
PITTING CORROSION RESISTANCE

NaCl 30 g/l - ASTM G61



LONG TERM IMMERSION TESTING
in
NATURAL SEA WATER
(Crevice Corrosion)

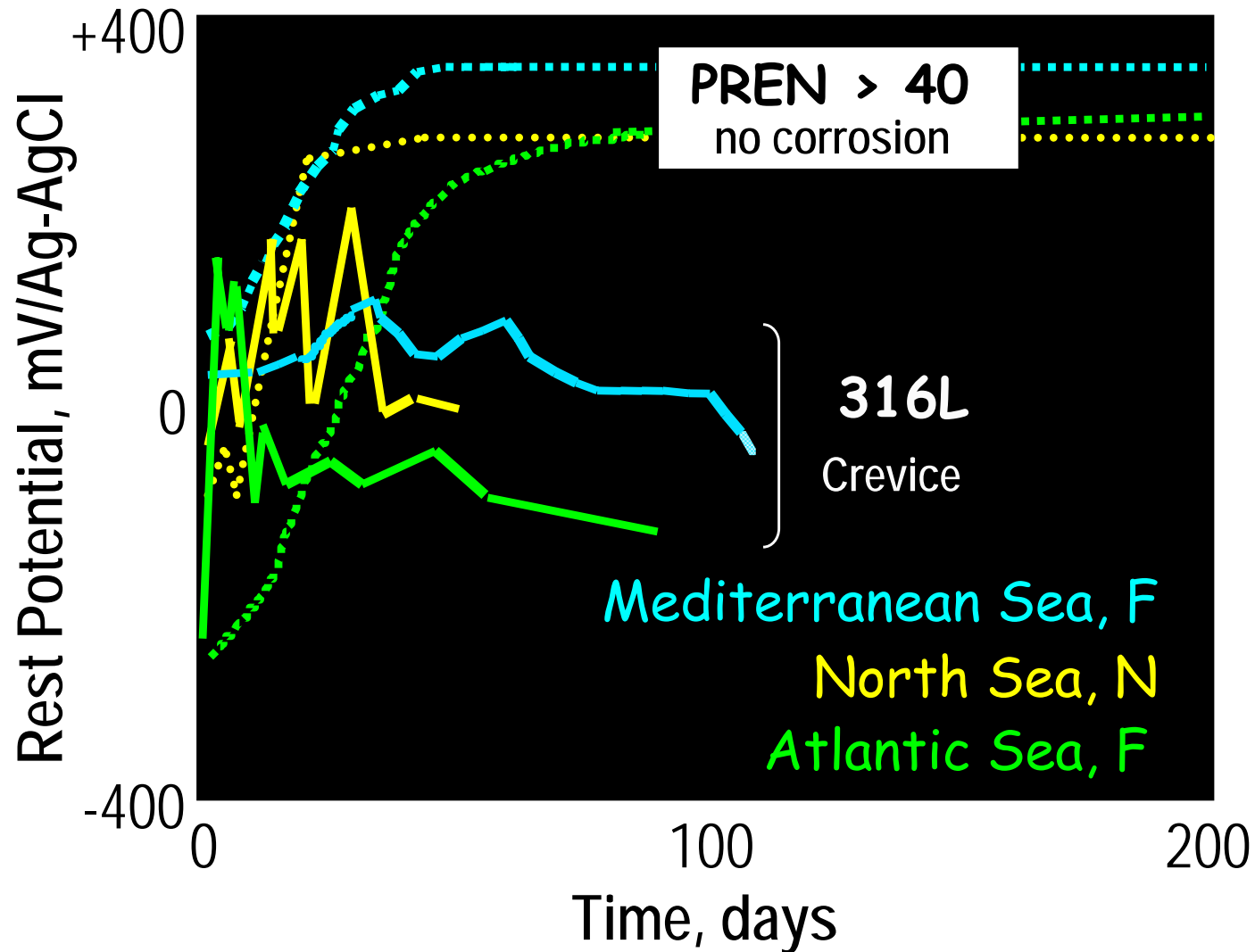
REST POTENTIAL OF MCW SAMPLES in MEDITERRANEAN SEA



MCW : multi crevice washers

EFFECT OF CLIMATIC CONDITIONS

PRENW > 40 :UR52N+, URB26, URB66 (MCW samples):
no Crevice Corrosion

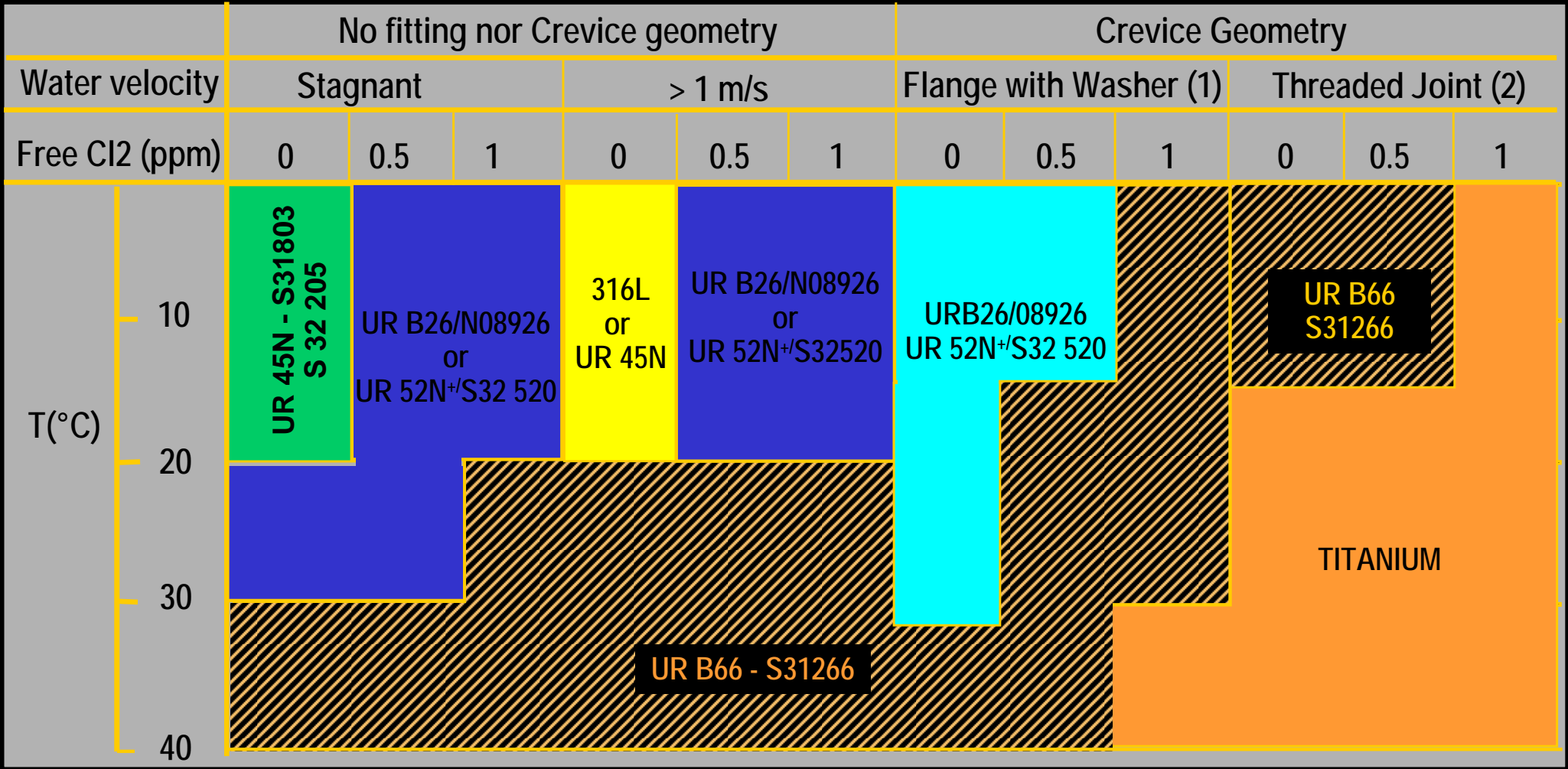


CREVICE CORROSION in NATURAL SEA WATER

Winter + Summer immersion tests , 3000 hours each

Steel	G	C	B	K	T
	Italy	France	France	Sweden	Norway
316L	5/5	5/5	0/4	0/4	4/4
31803	++	+	+	0/5	+
32520	+	+	0/5	0/5	+
32750	0/4	+	0/5	+	+
31254	+	+	0/5	0/5	0/5
32654	+	0/5	0/5	+	0/4
08028	+	+	+	0/5	+
08926	0/5	0/5	0/5	+	0/5
+ / ++ 5/5	one/several depassivated area, no weight loss crevice corrosion on 5 coupons out of 5				

MATERIAL SELECTION FOR SEAWATER



If some fretting or wear is involved, the material selection has to be adapted (please, contact corrosion specialists)

