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Qualities: RP, RP2x, HP, SHP, UHP

- Application:**
- For metals, ferro-alloys, magnesite and corundum melting in electric arc furnaces.
 - Treatment of molten metal in ladle furnaces.
 - Burning of tap holes.

Properties:

Parameter	Unit	RP	RP2x	HP	SP	UHP
Porosity	%	25 - 28	24 - 27	23 - 25	22 - 24	20 - 23
Specific el. resistance	$\mu\Omega\text{m}$	8,0 - 9,5	7,0 - 8,0	6,0 - 6,9	5,9 - 6,3	4,5 - 5,9
Bending strength	MPa	8,0 - 10	8,5 - 10,5	10,1 - 11,9	11,5 - 13,0	12,5 - 15,0
Coef. of therm. expansion (30-98) ^{°C}	$10^{-7}/\text{K}$	13 - 15	13 - 15	15 - 17	14 - 16	4 - 10
Apparent density	g/cm^3	1,56 - 1,60	1,59 - 1,62	1,62 - 1,66	1,67 - 1,69	1,69 - 1,75
Ash content	%	0,4	0,35	0,3	0,15	0,1

Size of electrodes *) (mm)	Diameter of electrodes (inch)	Avg. electrode weight (kg)	Avg. nipple weight (kg)	Type of nipple	No. of pieces on one pallet
Ø 152 x 1500	6	48	1,1	92T4N	18
Ø 203 x 1500	8	80	2,5	122T4N	9
Ø 228 x 1500	9	109	3,5	139T4N	9
Ø 254 x 1500 x 1800	10	132	4,6	152T4N	7
		155	4,6		
Ø 305 x 1500 x 1800	12	185	7,3	177T4N	7
		220	7,3		
Ø 356 x 1800	14	300	11,4	203T4N	3
Ø 406 x 1800	16	401	15,7	222T4N	3
Ø 457 x 1800 x 2100	18	498	21,3	241T4L	2
		580	21,3		
Ø 508 x 1800 x 2100 x 2400	20	640	33,0	269T4L	2
		720	33,0		
		810	33,0		
Ø 559 x 2100 x 2400	22	850	42,0	298T4L	2
		980	42,0		
Ø 610 x 2400	24	1200	48,5	317T4L	2
		1400	48,5		

Table legend: *) = most often supplied sizes of electrodes

N = normal (short) nipple

L = long nipple

Common diameter size tolerance is +/- 2-3 mm, size tolerance in length of electrodes is +/- 100 mm.

- Packing:**
- On wooden pallets, nipples are screwed in the electrodes .
 - Electrodes are on both sides protected by polystyrene caps to prevent damage during manipulation.

Repairing of damaged and broken electrodes:

- New sockets thread machining (if the usable part of electrodes is at least 1m long).
- Machining to smaller diameters (if there are deep surface defects).