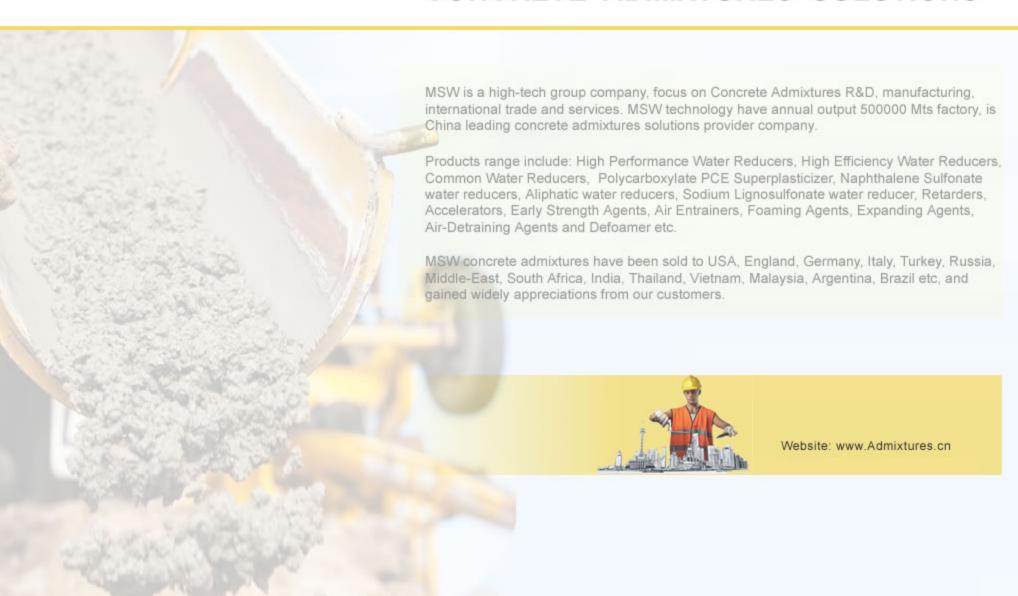
MSW漫森





CONCRETE ADMIXTURES SOLUTIONS



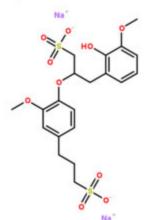
WR-M Sodium Lignosulphonate

SP-M RP-M AP-M

WATER REDUCERS

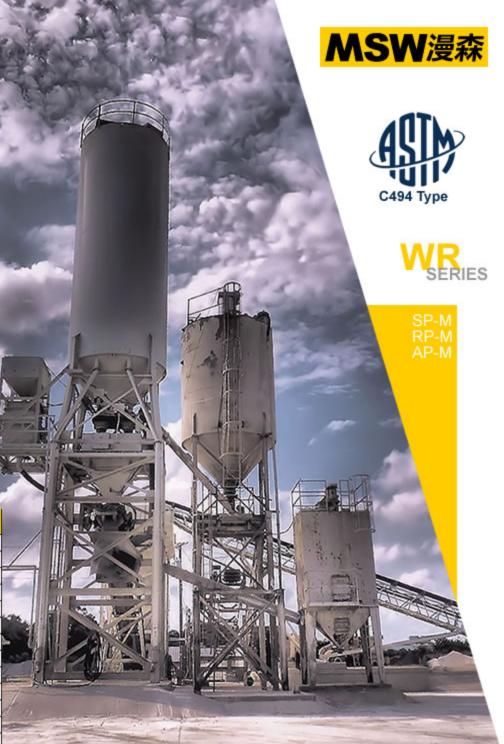
water-reducing rate up to 10%

Solid Content	50%
Reduzate	<8%
Water Insoluble	<1.5%
Ph	7 -9
Water Content	<5%
Fineness	120目
Residue On Sieve	≤4%



- 3.RP for mass concrete, RCC, large area pouring concrete, hot weather conditions can be used

Item s		WR-AP-M	WR-SP-M	WR-RP-M
water Reducing Rat	te %	> 8	> 8	> 8
bleeding Rate %	5	< 95	<100	< 100
air Content %		< 4.0	< 4.0	< 5.5
acting time/min	initial set	(00 to .120)) to +120) (-90 to +120)	> +90
setting time/min	final set	(-90 (0 + 120)		
after 1 hour	slumps/mm	-	-	
alter i nour	air content/%	-	-	
32 0	1 d	> 135		
compressive	3 d	> 130	> 115	
strength rate/%	7 d	> 110	> 115	> 110
	28 d	> 100	> 100	> 110
ratio of shrinkage/%	28 d	< 135	< 135	< 135
relative survivals(200ti	mes)/%	-	-	-



HWR-N Naphthalene Sulfonate

SP-N RP-N

Water Reducers / Superplasticizer

water-reducing rate up to 25%

Appearance	Powder
Color	Light Brown
Solid Content(%)	> 92
Content of Chloride(%)	< 0.3
PH value	7-9
Net Starch Fluidity(mm)	>250
Surfance Tension(N/m)	(70±1) X 10-3N/M

1. Suitable for preparation of early-strength, high-strength, high-anti-filtration and self-sealing & pumpable concrete

Widely used in pre-cast & ready-mixed concrete, armored concrete and pre-stressed reinforced concrete in key construction projects

 Compatible with Portland cement, normal Portland cement, Portland slag cement, fly-ash cement and Portland pozzolanic cement etc.

H\	NR	SP-N5	SP-N10	SP-N20	
Water Re	duction %	18-28	17-25	16-22	
Water Per	netration %	79	80	85	
Air Cor	ntent %	2.0	2.0	2.0	
Temporal Distribution for setting (min)	Initial setting time	-90 ~ +120 -90 ~ +12		-90 ~ +120	
	Terminal setting time				
	1 d	170	165	160	
Compression	3 d	160	155	150	
strength, %	7 d	145	140	140	
	28 d	135	130	125	
Shrinkage, %	28 d	82	85	88	
Corrosion to steel bars		None	None	None	

Note: Standard blend dosage: 0.75 % (as cement amount)





SP-Z RP-Z

Water Reducers / Superplasticizer

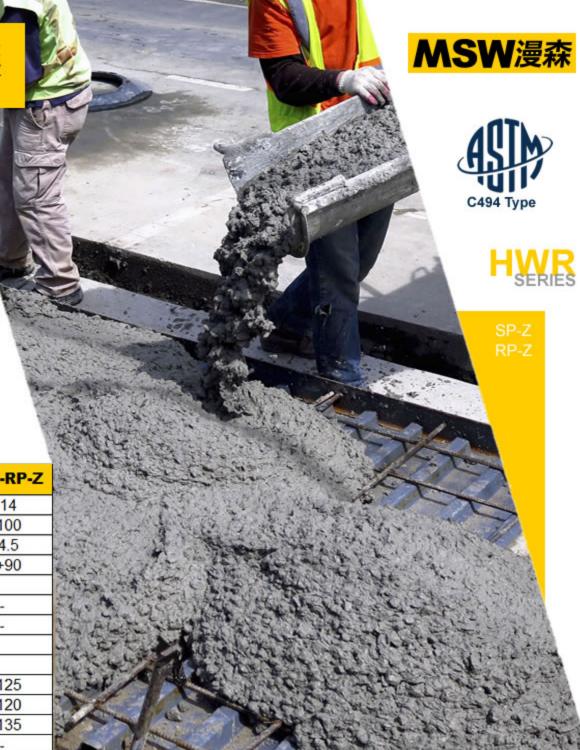
water-reducing rate up to 20%

Color	Brown
PH	9 - 10
Active Matter Content	> 90%
Water Content	< 7%
Water Insoluble	< 3%

Widely used in pre-cast & ready-mixed concrete, armored concrete and pre-stressed reinforced concrete in key construction projects

3.SP is usually used for temperatures greater than 0 ° C and can be used for steaming concrete

Items	HWR-SP-Z	HWR-RP-Z	
water Reducing	Rate %	> 14	> 14
bleeding Ra	te %	<9	< 100
air Conten	t %	< 3.0	< 4.5
setting time/min	initial set	(-90 to +120)	> +90
setting time/min	final set	(-90 (0 +120)	
after 1 hour	slumps/mm	-	-
alter i nour	air content/%	-	2
	1 d	> 140	
compressive	3 d	> 130	
strength rate/%	7 d	> 125	> 125
==	28 d	> 120	> 120
ratio of shrinkage/%	ratio of shrinkage/% 28 d		< 135
relative survivals(200times)/%		-	-







HIGH SLUMP LOSS RESISTANT

Set Accelerating-type / Set Retarding-type

water-reducing rate large than 35%

Appearance	Liquid
Color	Brown
Solid Content(%)	40/45/50
Air Content(%)	2-4
Content of Chloride(%)	0
PH value	6-8
Total Alkali Content	< 0.1
Sodium Sulfate	< 0.5

- 1. High water reduction, low dosage, slump small, non-toxic pollution
- 2. Good applicability with high-grade cement
- 3. Used in ready-mixed concrete, pumping concrete, mass concrete

NOTICES

PACK: 1000KG IBC tank

STORAGE: 5 - 35°C

EXPIRATION DATE: 6 Month

| 修存退輪 STORAGE TRANSPORT











MSW-RE

Sodium Gluconate



Reatarders for Concrete

Color	White or Yellow
Content	99%
State	Powder
Sulfate	< 0.05%
Reduzate	< 0.5%
(C3H12O6)	< 0.5%
Chloride	< 0.07%
PH (10% water)	6.5-7.8
arsenic salt(As)	< 2%
mk/kg	< 270

- 1. The setting time of concrete is delayed significantly
- 2. Use for long distance carriage, self-compacting concrete, mass concrete
- 3. Use in the lowest temperature is greater than 5 °C

NOTICES

舌

PACK: 25kg paper bag

ī

STORAGE: Keep cool, dry and moisture resistant

63

EXPIRATION DATE: 12 Month

▮ 銘存遺論 STORAGE TRANSPORT









k-MERICAN

P Skotte

集装箱海运





Early Strength Agents

(State: Gray or Brown Powder)

Items		HUPAN-ES	
water Reducing	Rate %	-	
bleeding Rat	te %	< 100	
air Content	%	-	
aatting time/min	initial set		
setting time/min	final set	> +90	
after 1 hour	slumps/mm	-	
and I nour	air content/%	-	
500	1 d	Ţ.	
compressive	3 d		
strength rate/%	7 d	> 100	
	28 d	> 100	
ratio of shrinkage/%	28 d	< 135	
relative survivals(20	00times)/%		

- 1. Use for steam-curing concrete,
- 2. Be applied to early-strength concrete construction projects
- 3. Not suitable for mass concrete, hot weather, the lowest temperature is less than -5 'C project.

PACKAGING

▮ 儲存遺論 STORAGE TRANSPORT











MSW-AC Aluminum Oxygen Chamotte

C494 Type



Accelerators for Concrete

γ.	State Powder or Liquid
	Color Gray
	Fineness < 12.6
	1D > 8Mpa
	Compressive Strength
	28D > 75Mpa
	Compressive Strength
	Initial set 2-3 min
	Final set 8-10 min

- 1. Use for sprayed concrete, sprayed mortar
- 2. Powder for dry type, liquid for wet type construction

NOTICES

PACK: 1000KG IBC tank or Ton Bag

STORAGE: 5 - 35°C

EXPIRATION DATE: 12 Month

▮豬神通輪 STORAGE TRANSPORT











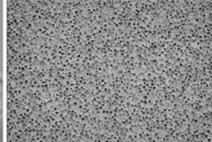


Foaming Agent

Applicable to Foam Concrete

- FA-Z: The foaming agent is resistant to storage, is not easily deteriorated, has excellent foaming energy, rich in foam, foam stability is moderate
- FA-D:The best performance, the most stable foam, the bubble can be issued for 24h





Туре	FA-Z	FA-D
Color:	Yellow	Brown
Components:	vegetable protein	animal protein
Dosage:	Standard	Large
Stomata States:	connected bubble	closed bubble
Soamability:	Better	Good
foaming stability:	Good	Better
Pour Thickness:	< 0.2 Meter	> 1.5 Meter
Thermal Insulation Properties:	Good	Better
Waterproof Properties:	Bad	Good
Compressive Strength:	Good	Better
Purpose:	Ground and Roof insulation	Foam brick Foam Insulation Board



TYPE	MSW-AE	MSW-EA	MSW-AD	MSW-AF	MSW-WP	MSW-AA
Name	Air Entrainers	Expanding Agents	Air-Detraining Agents	Anti-freezing Agents	Water-proofing Agents	Anti-corrosion Admixture
Application	antifreeze reduce segregation & bleeding	self waterproofing joint & fill projects	Improved strength Defoamer	winter construction	waterproofing anti-leakage structure	RC and prestressed concrete
State	Liquid / Powder	Powder	Liquid	Liquid / Powder	Powder	Liquid / Powder









MSW漫森

CONCRETE ADMIXTURES SOLUTIONS

