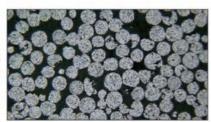


WC-12Co THERMAL SPRAY POWDER

Description

- Agglomerated and sintered or sintered and crushed gray/black spherical;
 Agglomerated and sintered powders are spherical or nearly spherical with good flowability; Sintered and crushed powders are irregular.
- Maximum service temperature:500°C.
- The dense coating with high hardness, and has resistance to abrasive wear, fretting wear, adhesive wear and erosion wear.
- O High fracture toughness.
- Mainly used in mechanical parts, oil and gas equipment, metallurgical roller and pump seal units, etc.





Typical cross-section and surface morphology of WC-12Co thermal spray powder

Grade & Chemical Composition

牌号	T.C(%)	Co(%)	Fe(%)	O(%)
ZTC42	5.2-6.0	11.5-12.5	≤1.0	≤0.5
ZTC42D	5.2-6.0	11.5-12.5	≤0.15	≤0.5

PS: "D" stands for spherical or nearly spherical thermal spray powder.

Specification & Physical Properties

Spec.	Туре	Size Fraction (µm)	Apparent density (g/cm³)	Flow Rate (s/50g)	Application
ZTC4251	WC-Co	53-20	≥4	≤25	
ZTC4253	88/12	45-20	≥4	≤25	
ZTC4252	Sintered & crushed	45-15	≥4	≤25	JP8000/DJ2600、
7TC4251D		53-20	≥4	≤18	DJ2700/Jet Kote /
ZTC4253D	WC-Co	45-20	≥4	≤18	
7TC4252D	88/12	45-15	≥4	≤18	Woka Jet/k2)
ZTC4281D	Agglomerated	45-11	≥4	≤18	
ZTC4254D	&sintered	38-10	≥4	≤18	⊚ APS
ZTC4282D		30-10	≥4	≤18	



Cross-section metallograph of WC-12Co coating

Recommanded Spray Pa	arameters(HVOF)
Material	WC-12Co
Manufacturing	Agglomerated & sintered
Size fraction(µm)	45-15
Spray Gun	JP5000
Nozzle(inch)	6
Kerosene(L/h)	22.7
Oxygen(L/min)	944
Carrier gas (Ar)(L/min)	7.5
Powder feed rate(g/min)	70-100
Spraying distance(mm)	350-380

Coatings Pr	operties	
Hardness(HV ₀₃)	1100-1300	
Bonding strength(MPa)	>70MPa	
Deposited efficiency(%)	40-50%	
Porosity(%) <1%		

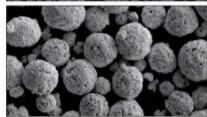


WC-17Co THERMAL SPRAY POWDER

Description

- Agglomerated and sintered or sintered and crushed gray/black spherical;
 Agglomerated and sintered powders are spherical or nearly spherical with good flowability;
 Sintered and crushed powders are irregular.
- Maximum service temperature:500°C.
- The dense coating with high hardness, and has resistance to abrasive wear, fretting wear, adhesive wear and erosion wear.
- Higher fracture toughness than WC-12Co.
- Mainly used in aircraft landing gear, extrusion die, wire drawing equipment, paper roller, glass industry, crushing roller and pump seal parts, etc.





Typical cross-section and surface morphology of WC-17Co thermal spray powder

Grade & Chemical Composition

Grade	T.C(%)	Co(%)	Fe(%)	O(%)
ZTC43	4.7-5.2	16.5-17.5	≤1.0	≤0.5
ZTC43D	4.7-5.2	16.5-17.5	≤0.15	≤0.5

PS: "D" stands for spherical or nearly spherical thermal spray powder.

Specification & Physical Properties

Spec.	Туре	Size Fraction (µm)	Apparent density (g/cm³)	Flow Rate (s/50g)	Application
ZTC4351	WC-Co	53-20	≥4	≤25	
ZTC4353	83/17	45-20	≥4	≤25	⊚ HVOF(JP5000、
ZTC4352	Sintered & crushed	45-15	≥4	≤25	JP8000/DJ2600、
ZTC4351D		53-20	≥4	≤18	DJ2700/Jet Kote /
ZTC4353D	WC-Co	45-20	≥4	≤18	
ZTC4352D	83/17	45-15	≥4	≤18	Woka Jet/K2)
ZTC4381D	Agglomerated	45-11	≥4	≤18	
ZTC4354D	&sintered	38-10	≥4	≤18	
ZTC4382D		30-10	≥4	≤18	



Cross-section metallograph of WC-17Co coating

Recommanded Spray Pa	rameters(HVOF)
Material	WC-17Co
Manufacturing	Agglomerated & sintered
Size fraction(µm)	45-15
Spray Gun	JP5000
Nozzle(inch)	6
Kerosene(L/h)	22.7
Oxygen(L/min)	944
Carrier gas (Ar)(L/min)	7.5
Powder feed rate(g/min)	70-100
Spraying distance(mm)	350-380

Coatings Properties				
Hardness(HV _{0.3})	950~1200			
Bonding strength(MPa)	>70 Mpa			
Deposited efficiency(%)	45~55%			
Porosity(%) <1 %				



WC-10Co4Cr THERMAL SPRAY POWDER

Description

- Agglomerated and sintered or sintered and crushed gray/black spherical; Agglomerated and sintered powders are spherical or nearly spherical with good flowability; Sintered and crushed powders are irregular.
- Maximum service temperature:500°C.
- Density coatings with high hardness, and has resistance to abrasive wear, corrosion wear and erosion wear.
- Replacing hard chrome plating.
- Co/Cr has better corrosion resistance and wear property than Co, especially for wetting and corrosion environment.
- Mainly used in aircraft landing gear, gate valve, ball valve, paper roller, hydraulic cylinder, compressor rod, metallurgical roller and mechanical parts, etc.





Typical cross-section and surface morphology of WC-10Co4Cr thermal spray powder

Grade & Chemical Composition

	V V	The state of the s		- 11	- 11
Grade	T.C(%)	Co(%)	Cr(%)	Fe(%)	0(%)
ZTC45	5.0-6.0	9.0-10.5	3.0-4.5	≤1.0	≤0.5
ZTC45D	5.0-6.0	9.0-10.5	3.0-4.5	≤0.15	≤0.5

PS: "D" stands for spherical or nearly spherical thermal spray powder.

Specification & Physical Properties

Spec.	Туре	Size Fraction (µm)	Apparent density (g/cm³)	Flow Rate (s/50g)	Application
ZTC4551	WC-Co-Cr	53-20	≥4	≤25	
ZTC4553	86/10/4	45-20	≥4	≤25	⊚HVOF(JP5000、
ZTC4552	Sintered & crushed	45-15	≥4	≤25	JP8000/DJ2600.
ZTC4551D		53-20	≥4	≤18	DJ2700/Jet Kote /
ZTC4553D		45-20	≥4	≤18	
ZTC4552D		45-15	≥4	≤18	Woka Jet/K2)
ZTC4581D	Agglomerated &sintered	45-11	≥4	≤18	○ HVAF
ZTC4554D	Aggiomerated asintered	38-10	≥4	≤18	
ZTC4582D		30-10	≥4	≤18	1



Cross-section metallograph of WC-10Co4Cr coating

Material	WC-10Co4Cr
Manufacturing	Agglomerated & sintered
Size fraction(µm)	45-15
Spray Gun	JP5000
Nozzle(inch)	6
Kerosene(L/h)	24
Oxygen(L/min)	944
Carrier gas (Ar)(L/min)	7.5
Powder feed rate(g/min)	70-80
Spraying distance(mm)	340-380

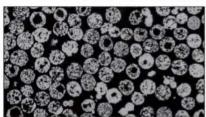
Coatings Properties				
Hardness(HV _{0.3})	1150-1400			
Bonding strength(MPa)	>70MPa			
Deposited efficiency(%)	40-55%			
Porosity(%)	<1%			

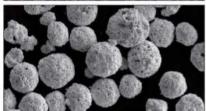


WC-10Ni THERMAL SPRAY POWDER

Description

- Agglomerated and sintered gray/black spherical or nearly spherical particles with good flowability.
- Maximum service temperature:500°C.
- The dense coating with high hardness, and has resistance to abrasive wear, fretting wear, adhesive wear, erosion wear, and corrosion wear.
- Ni has better corrosion resistance than Co, especially for wetting and corrosion environment.
- Mainly used in oilfield equipment (strict corrosion performance requirements), petrochemical industry, ball valves, offshore equipment and parts, etc.





Typical cross-section and surface morphology of WC-10Ni thermal spray powder

Grade & Chemical Composition

Grade	T.C(%)	Ni(%)	Fe(%)	O(%)
ZTC47D	5.3-5.8	9.0-11.0	≤0.2	≤0.5

PS: "D" stands for spherical or nearly spherical thermal spray powder.

Specification & Physical Properties

Spec.	Type	Size Fraction (µm)	Apparent density (g/cm³)	Flow Rate (s/50g)	Application
ZTC4751D	WC-Ni 90/10 Agglomerated &sintered	53-20	≥4	≤18	⊚ HVOF(JP5000、
ZTC4753D		45-20	≥4	≤18	JP8000/DJ2600、
TC4752D		45-15	≥4	≤18	DJ2700/Jet Kote
TC4781D		45-11	≥4	≤18	Woka Jet/K2)
TC4754D		38-10	≥4	≤18	⊚ HVAF
TC4782D		30-10	≥4	≤18	⊚ APS



Cross-section metallograph of WC-10Ni coating

Recommanded Spray P	arameters(HVOF)
Material	WC-10Ni
Manufacturing	Agglomerated & sintered
Size fraction(µm)	45-15
Spray Gun	JP5000
Nozzle(inch)	4
Kerosene(L/h)	24
Oxygen(L/min)	900
Carrier gas (Ar)(L/min)	8.5
Powder feed rate(g/min)	80-100
Spraying distance(mm)	340-380

Coatings Pro	perties
Hardness(HV _{0.3})	1050~1250
Bonding strength(MPa)	>70 Mpa
Deposited efficiency(%)	40~50 %
Porosity(%)	<1 %



WC-12Ni THERMAL SPRAY POWDER

Description

- Agglomerated and sintered gray/black spherical or nearly spherical particles with good flowability.
- Maximum service temperature:500°C.
- The dense coating with high hardness, and has resistance to abrasive wear, fretting wear, adhesive wear, erosion wear, and corrosion wear.
- Ni has better corrosion resistance than Co, especially for wetting and corrosion environment.
- Mainly used in oilfield equipment (strict corrosion performance requirements), petrochemical industry, ball valves (under oxidizing environment), plate valve, offshore equipment and parts, etc.





Typical cross-section and surface morphology of WC-12Ni thermal spray powder

Grade & Chemical Composition

Grade	T.C(%)	Ni(%)	Fe(%)	O(%)
ZTC4AD	5.2-6.0	11.5-12.5	≤0.5	≤0.5

PS: "D" stands for spherical or nearly spherical thermal spray powder.

Specification & Physical Properties

Spec.	Туре	Size Fraction (µm)	Apparent density (g/cm³)	Flow Rate (s/50g)	Application
ZTC4A51D		53-20	≥3.5	≤18	⊚ HVOF(JP5000、
ZTC4A53D	WC-Ni	45-20	≥3.5	≤18	JP8000/DJ2600
ZTC4A52D	88/12	45-15	≥3.5	≤18	DJ2700/Jet Kote /
ZTC4A81D	Agglomerated &sintered	45-11	≥3.5	≤18	Woka Jet/K2)
ZTC4A54D		38-10	≥3.5	≤18	◎ HVAF
ZTC4A82D		30-10	≥3.5	≤18	◎ APS



Cross-section metallograph of WC-12Ni coating

Material	WC-12Ni
Manufacturing	Agglomerated & sintered
Size fraction(µm)	45-15
Spray Gun	JP5000
Nozzle(inch)	4
Kerosene(L/h)	24
Oxygen(L/min)	900
Carrier gas (Ari(L/min)	8.5
Powder feed rate(g/min)	70-100
Spraying distance(mm)	340-380

Coatings Properties			
Hardness(HV _{0.3})	1000-1200		
Bonding strength(MPa)	>70MPa		
Deposited efficiency(%)	40-50%		
Porosity(%)	<1%		

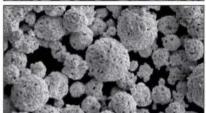


WC-17Ni THERMAL SPRAY POWDER

Description

- Agglomerated and sintered gray/black spherical or nearly spherical particles with good flowability.
- Maximum service temperature:500°C.
- The dense coating with high hardness, and has resistance to abrasive wear, fretting wear, adhesive wear, erosion wear, and corrosion wear.
- Ni has better corrosion resistance than Co, especially for wetting and corrosion environment.
- Mainly used in oilfield equipment (strict corrosion performance requirements), petrochemical industry, ball valves, offshore equipment and parts, etc.





Typical cross-section and surface morphology of WC-17Ni thermal spray powder

Grade & Chemical Composition

Grade	T.C(%)	Ni(%)	Fe(%)	O(%)
ZTC4BD	4.7-5.2	16.5-17.5	≤0.5	≤0.5

PS: "D" stands for spherical or nearly spherical thermal spray powder.

Specification & Physical Properties

Spec.	Туре	Size Fraction (µm)	Apparent density (g/cm³)	Flow Rate (s/50g)	Application
ZTC4B51D		53-20	≥3.5	≤18	0
ZTC4B53D	WC-Ni	45-20	≥3.5	≤18	
ZTC4B52D	83/17	45-15	≥3.5	≤18	DJ2700/Jet Kote /
ZTC4B81D	Agglomerated &sintered	45-11	≥3.5	≤18	Woka Jet/K2)
ZTC4B54D		38-10	≥3.5	≤18	○ HVAF
ZTC4B82D		30-10	≥3.5	≤30	○ APS



Cross-section metallograph of WC-17Ni coating

Material	WC-17Ni
Manufacturing	Agglomerated & sintered
Size fraction(µm)	45-15
Spray Gun	JP5000
Nozzle(inch)	4
Kerosene(L/h)	23
Oxygen(L/min)	900
Carrier gas (Ar)(L/min)	8.5
Powder feed rate(g/min)	80-100
Spraying distance(mm)	340-380

Coatings Pro	perties
Hardness(HV _{0.3})	950~1200
Bonding strength(MPa)	>70 Mpa
Deposited efficiency(%)	40~50 %
Porosity(%)	<1 %

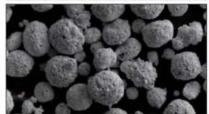


WC-15NiCr THERMAL SPRAY POWDER

Description

- Agglomerated and sintered gray/black spherical or nearly spherical particles with good flowability.
- Maximum service temperature:500°C.
- The dense coating with high hardness, and has resistance to abrasive wear, sliding wear, erosion wear, cavitation.
- NiCr has better corrosion resistance than Co, CoCr, and excellent resistance to seawater (salt water) corrosiont.
- Mainly used in oil field equipment, ball valve (oxidizing environment), gate hydraulic lever, transportation container hydraulic lever, petrochemical industry, offshore equipment and parts etc.





Typical cross-section and surface morphology of WC-15NiCr thermal spray powder

Grade & Chemical Composition

Grade	T.C(%)	Cr(%)	Ni(%)	Fe(%)	0(%)
ZTC4CD	4.7-5.3	2-4	9-11	≤0.5	≤0.5

PS: "D" stands for spherical or nearly spherical thermal spray powder.

Specification & Physical Properties

Spec.	Туре	Size Fraction (µm)	Apparent density (g/cm³)	Flow Rate (s/50g)	Application
ZTC4C51D	WC-Ni-Cr 85/12/3 Agglomerated &sintered	53-20	≥3.5	≤18	◎ HVOF(JP5000、
ZTC4C53D		45-20	≥3.5	≤18	JP8000/DJ2600
ZTC4C52D		45-15	≥3.5	≤18	DJ2700/Jet Kote /
ZTC4C81D		45-11	≥3.5	≤18	Woka Jet/K2)
ZTC4C54D		38-10	≥3.5	≤18	○ HVAF
ZTC4C82D		30-10	≥3.5	≤18	□ ⊗ APS



Cross-section metallograph of WC-15NiCr coating

Material	WC-15NiCr
Manufacturing	Agglomerated & sintered
Size fraction(µm)	45~15
Spray Gun	JP5000
Nozzle(inch)	6
Kerosene(L/h)	23
Oxygen(L/min)	900
Carrier gas (Ar)(L/min)	8.5
Powder feed rate(g/min)	70~80
Spraying distance(mm)	340~380

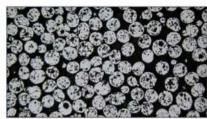
Coatings Properties				
Hardness(HV _{0.3})	1000-1350			
Bonding strength(MPa)	>70MPa			
Deposited efficiency(%)	35-50%			
Porosity(%)	<1%			



WC-20Cr₃C₂-7Ni THERMAL SPRAY POWDER

Description

- Agglomerated and sintered gray/black spherical or nearly spherical particles with good flowability.
- Maximum service temperature: 750°C.Can be used in humid environments.
- The dense coating has resistance to oxidation, corrosion, abrasive wear.
- Anti-oxidation and corrosion resistance are better than WC-Co based coating.
- Mainly used in iron & steel industry, paper making, pump valves, etc.





Typical cross-section and surface morphology of WC-20Cr₃C₂-7Ni thermal spray powder

Grade & Chemical Composition

Grade	T.C(%)	Ni(%)	Cr(%)	Fe(%)	O(%)
ZTC48D	5.8-6.4	6-8	20-23	≤0.5	≤0.5

PS: "D" stands for spherical or nearly spherical thermal spray powder.

Specification & Physical Properties

Spec.	Туре	Size Fraction (µm)	Apparent density (g/cm³)	Flow Rate (s/50g)	Application
ZTC4851D	WC-Cr ₃ C ₂ -Ni 73/20/7 Agglomerated &sintered	53-20	≥4	≤18	⊚ HVOF(JP5000、
ZTC4853D		45-20	≥4	≤18	JP8000/DJ2600、
ZTC4852D		45-15	≥4	≤18	DJ2700/Jet Kote /
ZTC4881D		45-11	≥4	≤18	Woka Jet/K2)
ZTC4854D		38-10	≥4	≤18	◎ HVAF
ZTC4882D		30-10	≥4	≤30	□ ⊗ APS



Cross-section metallograph of WC-20Cr₃C₂-7Ni coating

Recommanded Spray	Parameters(HVOF)
Material	WC-20Cr ₃ C ₂ -7Ni
Manufacturing	Agglomerated & sintered
Size fraction(µm)	45~15
Spray Gun	JP5000
Nozzle(inch)	6
Kerosene(L/h)	23
Oxygen(L/min)	900
Carrier gas (Ar)(L/min)	8.0
Powder feed rate(g/min)	70~80
Spraying distance(mm)	340~360

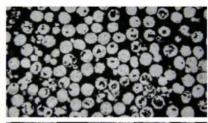
Coatings Pro	perties
Hardness(HV ₀₃)	950~1200
Bonding strength(MPa)	>70 Mpa
Deposited efficiency(%)	35~45 %
Porosity(%)	<1 %

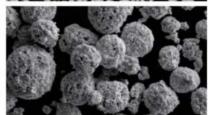


Cr₃C₂-37WC-18NiCoCr THERMAL SPRAY POWDER

Description

- Agglomerated and sintered gray/black spherical or nearly spherical particles.
- Maximum service temperature:700°C.
- The coating has excellent resistance to sliding wear, abrasive wear, erosion wear, corrosion wear, cavitation and corrosion.
- High temperature solid/liquid/gas corrosion resistance.
- Excellent corrosion resistance for high temperature complex corrosion.
- Mainly used in pump valve parts, power generation boilers, biomass burning boilers, chemical industry, etc.





Typical cross-section and surface morphology of $\text{Cr}_3\text{C}_2\text{-}37\text{WC-}18\text{NiCoCr}$ thermal spray powder

Grade & Chemical Composition

Grade	T.C(%)	Co(%)	Ni(%)	Cr(%)	O(%)	Fe(%)
ZTC49D	7.8-8.4	3-4	10.5-12.5	39.5-42.5	≤0.5	<0.5

PS: "D" stands for spherical or nearly spherical thermal spray powder.

Specification & Physical Properties

Spec.	Туре	Size Fraction (µm)	Apparent density (g/cm³)	Flow Rate (s/50g)	Application
ZTC4951D		53-20	≥2.5	3	⊚ HVOF(JP5000、
ZTC4953D	Cr ₃ C ₂ -WC-NiCoCr	45-20	≥2.5	(()	JP8000/DJ2600、
ZTC4952D	45/37/18 Agglomerated &sintered	45-15	≥2.5	, 	DJ2700/Jet Kote , Woka Jet/K2)
ZTC4981D		45-11	≥2.5	7-4	
ZTC4954D		38-10	≥2.5	()	◎ HVAF
ZTC4982D		30-10	≥2.5	()	◎ APS



Cross-section metallograph of Cr₃C₂-37WC-18NiCoCr coating

Material	Cr ₃ C ₂ -37WC-18NiCoCr
Manufacturing	Agglomerated & sintered
Size fraction(µm)	45~15
Spray Gun	Jp5000
Nozzle(inch)	6
Kerosene(L/h)	25
Oxygen(L/min)	900
Carrier gas (Ar)(L/min)	7.5
Powder feed rate(g/min)	70~80
Spraying distance(mm)	320~380

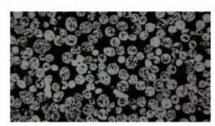
Coatings Pro	perties
Hardness(HV _{0.3})	1050-1250
Bonding strength(MPa)	>60MPa
Deposited efficiency(%)	40-48%
Porosity(%)	<3%

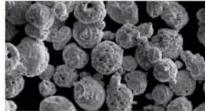


Cr₃C₂-20NiCr THERMAL SPRAY POWDER

Description

- Agglomerated and sintered gray/black spherical or nearly spherical particles.
- Maximum service temperature:870°C.
- The coating has excellent resistance to sliding wear, abrasive wear, erosion wear, corrosion wear, cavitation and corrosion.
- O High temperature solid/liquid/gas corrosion resistance.
- Mainly used in gas turbines, aircraft engines, valve rod, power generation boilers, metallurgical furnace roller and the hydraulic valves, etc.





Typical cross-section and surface morphology of Cr₃C₂-20NiCr thermal spray powder

Grade & Chemical Composition

Grade	T.C(%)	Ni(%)	Cr(%)	O(%)	Fe(%)
ZTC51D	9.7-10.7	15-17	Bal.	≤0.5	< 0.15

PS: "D" stands for spherical or nearly spherical thermal spray powder.

Specification & Physical Properties

Spec.	Туре	Size Fraction (µm)	Apparent density (g/cm³)	Flow Rate (s/50g)	Application
ZTC5151D		53-20	≥2.0	× - /	⊚ HVOF(JP5000、
ZTC5153D	C- C NIC-	45-20	≥2.0	y -	JP8000/DJ2600、
ZTC5152D	Cr ₃ C ₂ -NiCr 80/20 Agglomerated &sintered	45-15	≥2.0	7 <u>-</u> 2	DJ2700/Jet Kote
ZTC5181D		45-11	≥2.0	(Woka Jet/K2)
ZTC5154D		38-10	≥2.0	97—9	
ZTC5182D		30-10	≥2.0	_	⊚ APS



Cross-section metallograph of Cr₃C₂-20NiCr coating

Material	Cr ₃ C ₂ -20NiCr
Manufacturing	Agglomerated & sintered
Size fraction(µm)	45~15
Spray Gun	Jp5000
Nozzle(inch)	8
Kerosene(L/h)	25
Oxygen(L/min)	920
Carrier gas (Ar)(L/min)	8.0
Powder feed rate(g/min)	50~60
Spraying distance(mm)	320~360

Coatings Properties		
Hardness(HV _{0.3})	1100~1250	
Bonding strength(MPa)	>50 Mpa	
Deposited efficiency(%)	30~45 %	
Porosity(%)	<3 %	

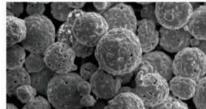


Cr₃C₂-25NiCr THERMAL SPRAY POWDER

Description

- Agglomerated and sintered gray/black spherical or nearly spherical particles.
- Maximum service temperature:870°C.
- The coating has excellent resistance to sliding wear, abrasive wear, erosion wear, corrosion wear, cavitation and corrosion.
- High temperature solid/liquid/gas corrosion resistance.
- Mainly used in gas turbines, aircraft engines, valve rod, power generation boilers, metallurgical furnace roller and the hydraulic valves, etc.





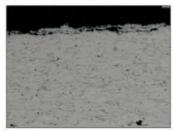
Typical cross-section and surface morphology of Cr₃C₂-25NiCr thermal spray powder

Grade & Chemical Composition

Grade	T.C(%)	Ni(%)	Cr(%)	O(%)	Fe(%)
ZTC52D	9.1-10.1	19-21	Bal.	≤0.5	≤0.15

Specification & Physical Properties

Spec.	Туре	Size Fraction (μm)	Apparent density (g/cm³)	Flow Rate (s/50g)	Application
ZTC5251D		53-20	≥2.0	(()	◎ HVOF(JP5000、
ZTC5253D	Cr.C. NiCr	45-20	≥2.0		JP8000/DJ2600、
ZTC5252D	Cr₃C₂-NiCr 75/25	45-15	≥2.0	9 <u></u> -	DJ2700/Jet Kote /
ZTC5281D	Agglomerated	45-11	≥2.0		Woka Jet/K2)
ZTC5254D	&sintered	38-10	≥2.0	5=6	◎ HVAF
ZTC5282D		30-10	≥2.0	- .	◎ APS



Cross-section metallograph of Cr₃C₂-25NiCr coating

Recommanded Spray P	arameters(HVOF)
Material	Cr ₃ C ₂ -25NiCr
Manufacturing	Agglomerated & sintered
Size fraction(µm)	45~15
Spray Gun	JP5000
Nozzle(inch)	8
Kerosene(L/h)	25
Oxygen(L/min)	900
Carrier gas (Ar)(L/min)	7.5
Powder feed rate(g/min)	50~60
Spraying distance(mm)	320~360

Coatings Pro	perties
Hardness(HV _{0,3})	900-1200
Bonding strength(MPa)	>50MPa
Deposited efficiency(%)	30-45%
Porosity(%)	<3%