

FERRODEC 56

Powdered product for the decoating of aluminium or titanium based layers on steel tools.

CUTTING TOOLS RANGE

COMPATIBILITY

- Substrates:
 - Stainless steel
 - HSS
 - HSS (PM steel)*
 - HSSE (with cobalt in alloy)*
 - Other tool steels
- * Only in use with plastic baskets and holders.
- Coatings:
 - TiN
 - TiCN
 - AlTiN
 - DLC / TiTiAlSiN
 - TiAlN
 - TiSiN
 - TiC
 - TiCu

PHYSICOCHEMICAL DATA

- pH (1%): 7.5
- Density: 965kg/m³ ±5%
 Appearance: White powder

INSTRUCTIONS FOR USE

- Concentration: 30-200g/l dissolved into DI water
- Hydrogen Peroxide (35-50% grade): 10% of total volume
- Temperature: 60-80°C (140-176°F)
- Kinetic reactions: 1 hour to 5 hours depending on the nature of the coating
- Ultrasonics or bath agitation improve performances significantly
- The bath must be placed under a hood or in a machine equipped with an air extractor
- The mixture must be disposed as hazardous waste

PROCESS EXAMPLE

DECOATING

FERRODEC 56 + Hydrogen Peroxide DI water Conc.: 30-200g/l Temp.: 60-80°C 140-176°F Time: 1-5 h

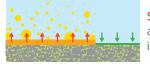
TAP WATER RINSE

Temp.: 20-30°C 68-86°F Time: 2-3 min DI WATER RINSE + Corrosion protection

Temp.: 30-40°C 86-104°F Time: 2-3 min DRYING

DECOATING PROCESS





Stripping of coating and corrosion inhibition



Decoated parts and undamaged substrates

Parameters for decoating:







Agitation or US 21/06/23

STORAGE CONDITIONS

- Keep hermetically sealed
- Keep the container between 5°C and 40°C (41 and 104°F) in a dry place
- Always keep in packaging made from the same material as the original packaging (HDPE)



For any other decoating operation; please contact NGL Cleaning GmbH which can offer you the services of its top of the art decoating facility.









DECOATING PRODUCT GUIDE



MATRIX COATING / SUBSTRATE / COATING THICKNESS / TIME:

	COATINGS							
SUBSTRATES	TiCN	TiN, TiAlN, AlTiN	TiSiN, TiSiAlN	ZrN, ZrCN	AlCrN, AlCrSiN	DLC: Cr, CrN adhesion layer	DLC ta-C/ DLC a-C/ DLC a-C:H	CrN
CARBIDE	U308	U308	U308	U308	C211	х	х	х
Time	1-2µ 18-24h / 2-3µ 48- 72h / 3-5µ 3-6d	1-2µ 8-24h / 2-3µ 24- 48h /3-5µ 24-72h	1-2µ 8-24h / 2-3µ 24- 48h /3-5µ 24-72h	1-10h	1-2µ 24-72h / 2-3µ 48h- 5d / 3-5µ 3-10d	-	-	-
HSSE (with cobalt in the alloy)	U308	U308	U308	U308	E222, possible cobalt leaching	E222, possible cobalt leaching	у	E222, possible cobalt leaching
Time	1-2µ 18-24h / 2-3µ 48- 72h / 3-5µ 3-6d	1-2µ 8-24h / 2-3µ 24- 48h /3-5µ 24-72h	1-2µ 8-24h / 2-3µ 24- 48h /3-5µ 24-72h	1-10h	45-180 min	45 min-48h	-	20-120 min
HSS	F56	F56	F56	U308	E222	E222	у	E222
Time	3-6h	1-3h	1-3h	1-10h	20-120 min	45 min-48h	-	20-120 min
HSS (without cobalt in the alloy)	F56	F56	F56	U308	E222	E222	у	E222
Time	3-6h	1-3h	1-3h	1-10h	20-120 min	45 min-48h	-	20-120 min
TOOL STEEL	F56	F56	F56	U308	E222	E222	у	E222
Time	3-6h	1-3h	1-3h	1-10h	20-120 min	45 min-48h	-	20-120 min
STAINLESS STEEL	F56	F56	F56	U308	E222	E222	у	E222
Time	3-6h	1-3h	1-3h	1-10h	20-120 min	45 min-48h	-	20-120 min
NICKEL-CHROMIUM- BASED SUBSTRATES	F56	F56	F56	U308	E222	E222	у	E222
Time	3-6h	1-3h	1-3h	1-10h	20-120 min	45 min-48h	-	20-120 min

x - no solution

The decoating matrix is a schematic abstract. Due to the high substrate/coating diversity the classification for compatibilities can't be generalized and must be confirmed by test before use.

Decoating bath temperatures:

- U308: Uniceral 308 (80-90°C (68-86°F) / bath circulation required)
- F56: Ferrodec 56 (60-80°C (140-176°F) / usually 70°C (158°F)
- E222: Excarbonite 222 (40-70°C (104-158°F) / usually 55°C (131°F)/ bath circulation required
- C211: Ceraltin 211 (130-140°C (266-284°F)



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y - no solution if no Cr/CrN adhesion layer available