

Date:	09.12.2022								
Editor:	Füllmann, Robert								
Material:	Carbon fiber (CFK)								
Mounting:	Cold, D=40 mm, EpoClear (epoxy resin)								
TIP // For reference images, take a look at our wide-ranging microstructure database. There you will find many micrographs of various materials, including their state of heat treatment and the etching agent we used.									
Link to our Microstructure Database (Gefügedatenbank)									
	Grinding					Polishing			
	1	2	3	4	5	1	2	3	4
Base	SiC paper	SiC paper	SiC paper	SiC paper	SiC paper	RamTec	RamTec	NapTec	
Grit size	P120	P220/P500	P800	P1000	P2400	9 µm mkd water-based	3 µm mkd water-based	1/4 µm mkd water-based	
Lubricant	H2O	H2O	H2O	H2O	H2O	coolTec I	coolTec I	coolTec I	
Drive	150 rpm	150 rpm	150 rpm	150 rpm	150 rpm	300 rpm	300 rpm	300 rpm	
Rotation direction	><	><	><	><	><	><	><	><	
Downforce !centralpressure!	20 N/sample	30 N/sample	30 N/sample	30 N/sample	30 N/sample	30 N/sample	30 N/sample	20 N/sample	
Time	until planar	1,5 min	1,5 min	1,5 min	1,5 min	5,0 min	10,0 min	5,0 min	
Etching									
Remarks	9 µm RamTec can also be replaced by PanTec. Use plenty of lubricant for cooling.								

Legend [EN]	Legende [DE]
DPS = Diamond Plane Grinding Disc DSS = Diamond Grinding Disc ADAMANT = ADAMANT Diamond Grinding Disc IDAMANT = IDAMANT Diamond Grinding and Polishing Disc	DPS = Diamant-Planschleifscheibe DSS = Diamant-(Fein)schleifscheibe ADAMANT = ADAMANT Diamantschleifscheibe IDAMANT = IDAMANT-Schleifpolierscheibe
>< Countercurrent >> Concurrent	>< Gegenlauf >> Gleichlauf
mkd = monocrystalline Diamond, concentration 50 carat/litre pkd = polycrystalline Diamond, concentration 50 carat/litre	mkd = monokristalliner Diamant, Konzentration 50 Karat/Liter pkd = polykristalliner Diamant, Konzentration 50 Karat/Liter
Lubricant: coolTec I (Water-based) coolTec II (Alcohol-based) coolTec III (Oil-based) coolTec IV (Water-based) coolTec Orange (Anhydrous)	Schmiermittel: coolTec I (Wasserbasis) coolTec II (Alkoholbasis) coolTec III (Ölbasis) coolTec IV (Wasserbasis) coolTec Orange (Wasserfrei)
Spüli: Dishwasher detergent with H2O for cleaning the samples	Spüli: Spüli mit Wasser zum Reinigen der Proben
You can find metallography supplies in our store (link)	Verbrauchsmaterialien finden Sie in unserem Shop (Link)