BINDING SOLUTIONS

Preliminary Information Required to Prepare Binder Solution

Raw Material Primary	
⇨ Mine Name and Location	
⇨ Petrological Description	
⇨ Process Line	
⇨ Particle Size Analysis	
⇨ Blaine Index	
⇨ Analysis XRF	
⇨ Analysis XRD	
⇨ Moisture content at point of delivery: Min/Max/Mean as % of dry weight with any seasonal fluctuations	
⇨ Clays content	
⇨ Any undesirable contents – Amount of	
⇨ Friability	
⇨ Strength	
⇨ Shape Analysis	
⇨ Surface texture analysis	

⇨ Bulk Density	
⇨ Particle density and water absorption	
Raw Materials: Byproducts	
⇨ Production line of original	
⇨ Blend or single product	
⇨ Analysis XRF	
⇨ Analysis XRD	
⇨ Moisture content at point of delivery: Min/max/mean as % of dry weight with seasonal fluctuations	
⇨ Bulk density	
⇨ Particle density and water absorption	
Product Requirements	
⇨ Existing outlet/use for material- detail of quantities/rate addition which type of furnaces	
⇨ Available or more desirable outlets/uses for material	
⇨ Product Required: Dimension and type	
⇨ Schematic of existing equipment	
⇨ For Roller Press: Manufacturer/Date/Pressure imparted/No of hydraulic rams/ rams on both sides of single or follow/Pocket material and condition/Roll width/Power Kw	

⇨ For Mixing: Type/Manufacturer/Power requirement	
⇨ For Extruder: Manufacturer/Model Number	
⇨ Ambient temperature range at site	
⇨ Post production handling inc no/height of belt drops	
⇨ Min/max available curing times	
⇨ Facility for revert addition	
⇨ Typical Reverts %	
⇨ Desirable outcomes/area for improvement on existing situation	
Specifications	
⇨ ISO/Country Specific/ Site Specified/ Combination	
⇨ Physical properties: Size	
⇨ Physical properties: Crush strength method and target	
⇨ Physical properties: Drop tests – green method and target	
⇨ Physical properties: Drop tests – Cured – method and target	
⇨ Physical properties: Tumble and abrasion indices	
⇨ Physical properties: Porosity	
⇨ Hot Press Testing: Reduction disintegration index	
⇨ Hot Press Testing: Linder Test	

⇨ Hot Press Testing: Rate of reducibility	
⇨ Hot Press Testing: Degree of metallization	
⇨ Hot Press Testing: Thermal stability	
⇨ Hot Press Testing: Reduction under load	
⇨ Hot Press Testing: Free swelling	
⇨ Hot Press Testing: Clustering	
⇨ Hot Press Testing: Decrepitation	

Please attach a safety data sheet and send a 50Kg representative sample of fine material or concentrate to our laboratory at the following address:

Mr Richard Joyce
Binding Solutions Limited
Material Processing Institute
Eston Road
Middlesbrough
TS6 6US
United Kingdom

EORI Number: GB261240833000

For Binding Solutions' internal use only:	
Client Reference Number:	
Sample Reference:	
Date Received:	