



# Atomised Reduced Iron Powder

## Powder Metallurgy / Sinter

Grade	Chemical Composition in (%)						FeT	Particle Size - in Microns (%)					Apparent Density (Gms/CC)	Flow Rate (s/50g)	Green Density @ 600 Mpa (Gm/CC)	Green Strength (N/mm <sup>2</sup> )
	C	S	P	Mn	Si	O - tot		250	180	150	- 150 + 45	-45				
GRPM 100.26	0.02	0.02	0.03	0.1	0.05	0.15	Base	--	>2	10 - 15	Bal.	15 - 20	2.6	30	7.1 - 7.3	26
GRPM 80.24	0.03	0.02	0.03	0.1	0.05	0.2		>3	>8	5 - 10	Bal.	15 - 25	2.4	31	7	26
GRPM 100	0.03	0.02	0.03	0.1	0.05	0.25		--	>6	10 - 15	Bal.	15	2.95	32	6.8	22
GRPM 80	0.02	0.02	0.03	0.1	0.05	0.25		>3	>10	10	Bal.	10 - 15	2.8	30	6.7	24

## Gas & Water Jet Cutting

Grade	Chemical Composition in (%)						Particle Size - in Microns (%)			Apparent Density (Gms/CC)	Flow rate (s/50 gm)
	C	S	Mn	Si	O - tot	FeT	>5 %	80 - 85 %	10-15 %		
GRGC 100.26	0.03	0.015	0.15	0.05	0.1	Base	+180	-150	-45	2.9-3.1	28-32
GRGC 40.26	0.03	0.015	0.15	0.05	0.1		+840	-400	+180	2.9-3.1	28-32
GRGC 20.29	0.03	0.015	0.15	0.05	0.15		+1000	-840	+400	2.9-3.1	28-32

## Welding Grade & Core Wire Grade

Grade	Chemical Composition in (%)						Particle Size - in Microns (%)			Apparent Density (Gms/CC)	Flow rate (s/50 gm)
	C	S	Mn	Si	O - tot	FeT	>5 %	80 - 85 %	10-15 %		
GRW 60.29	0.03	0.02	0.2	0.1	0.1	Base	250	-250	+150	2.9-3.1	28-32
GRW 40.29	0.03	0.02	0.2	0.1	0.1		400	-400	+180	2.9-3.1	28-32
GRW 100	0.03	0.02	0.2	0.1	0.15		180	-180	+75	2.9-3.1	28-32
GRCW 40.29	0.03	0.02	0.2	0.1	0.1		400	-400	+250	2.9-3.1	28-32
GRCW 20.29	0.03	0.02	0.2	0.1	0.1		840	-840	+600	2.9-3.1	28-32

## Oxygen Absorber

Grade	Chemical Composition in (%)						Particle Size in Microns (%)		Apparent Density (Gms/CC)	Flow rate (s/50 gm)
	C	S	Mn	Si	O - tot	FeT	>5 %	95-100 %		
GROA 20	0.02	0.015	0.1	0.05	0.1	Base	840	-840	2.9-3.1	28-32
GROA 40	0.03	0.015	0.1	0.05	0.1		+400	-400	2.9-3.1	28-32
GROA 60	0.02	0.015	0.1	0.05	0.15		+250	-250	2.9-3.1	28-32
GROA 80	0.02	0.015	0.1	0.05	0.1		+180	-180	2.9-3.1	28-32
GROA 100	0.02	0.02	0.1	0.05	0.1		+150	-150	2.9-3.1	28-32

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